HEMIST and DRUGGIST AUGUST 15, 1942

The
CHEMIST AND DRUGGIST
for RETAILER - WHOLESALER - MANUFACTURER

blished 1859 28 Essex Street, Strand, London, W.C.2 Registered as a Newspaper

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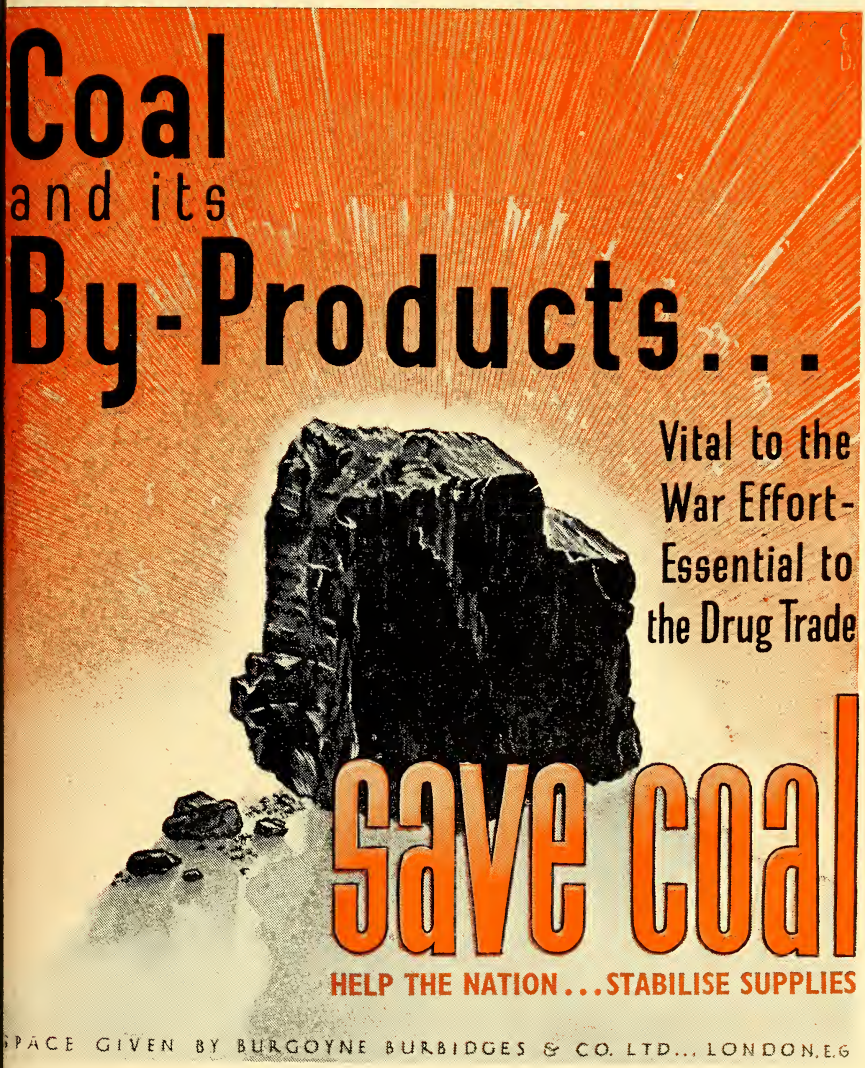
CXXXVIII AUGUST 15, 1942 Annual Subscription (with Diary) 25/-. Single Copies 9d.



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EDUCATIONAL NUMBER

EUTHYMOL and the Pharmacist

Chemists perform a vital National service. They comprise a highly important part of the machinery for maintaining the nation's health: the medical profession unhesitatingly relies upon them to dispense prescriptions accurately. They are authorities on toilet preparations as well as drugs, and their opinion is always worth attention. For over forty years they have been recommending

Euthymol
TOOTH PASTE

M.P.S.

The letters M.P.S. stand for "Member of the Pharma-
ceutical Society" and signify
at the holder is a registered.
alified chemist. The
fied chemist occupie
portant place in
of maintainin
health. Your
him to d
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regis-
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Advertisements such as these are now appearing in well-known periodicals. In view of the Memorandum to the Beveridge Committee, they should be helpful in stimulating a wider appreciation of the services that pharmacists are rendering to the community

Parke, Davis & Co
50 Beak St. W.1.

Milton Bulletin No. 6

INTRODUCTION OF RETURNABLE WOODEN CASES FOR 'MILTON' PRODUCTS

As the supplies of fibre board cases allocated to us by the Paper Control and the cases returned by the trade are insufficient to fill the demand for Milton Antiseptic and Milton Denture Powder, it will be necessary for us to dispatch supplies to retailers and wholesalers in returnable wooden cases when fibre board cases are not available. We regret that this is necessary but are confident that the inconveniences involved will be accepted as readily by the trade as they have been by us.

Although different types of wooden cases of various values will be used from time to time, a standard charge of 8s. per case will be made and credited in full on the return of the case *complete with lid and any cardboard or wooden divisions or other packing material sent with it.* The cost of returning the case paid by the customer will also be credited in full provided the case is returned in the manner indicated on the instructions leaflet in the case. Orders for 'Milton' products can only be accepted now on the understanding that returnable cases may be used at our discretion and charged on the basis mentioned above. The co-operation of the trade in this matter will be greatly appreciated.

Please continue to return fibre board cases by post. Generous credits allowed. See label on every case issued by us. Thanks!

Milton Antiseptic Ltd., Chapel Lane, Sands, High Wycombe, Bucks

A

A new kind of antiseptic ointment. White, won't stain linen, agreeable to use, washes off easily. Contains non-irritating antiseptic in up-to-date emulsified base. Comparative tests by U.S.A. 'Agar Plate' method shows germicidal qualities far superior to Carbolic Ointment B.P., Boric Ointment B.P., and others, tested on B. Coli, B. Megatherium, Streptococcus Faecalis and Staphylococcus Albus.

National Advertising in—

DAILY MAIL
DAILY HERALD
NEWS OF THE WORLD
PEOPLE
PICTURE POST
JOHN BULL
ILLUSTRATED
WOMAN

and other leading national and provincial papers throughout the country, has begun.

ORDER FORM

To Dae Health Laboratories Ltd., (C.D.3.)
25/27 Berners Street, London, W.I.

Kindly send.....doz. Valderma Antiseptic Balm at 15/- per doz. less 5% for display (on first order only) also 5% for cash with order.

NAME .....

ADDRESS .....

.....

.....

Minimum order 3 doz. All other orders must be *multiples* of 3 doz.

37% Profit

3 doz. at 15/- doz.	£2. 5. 0
less 5% for display	2. 3
	£2. 2. 9
less 5% for cash with order	2. 1
	£2. 0. 8
plus p. tax 16 2/3%	7. 6
Cheque required	£2. 8. 2

Collosol Argentum Crookes'

As a general antiseptic *Collosol* Argentum is rather more than equal to one per cent. phenol and is at the same time completely non-toxic and non-irritant.

Indicated in all types of inflammatory conditions of the ear, nose and throat.

In cases of ophthalmia neonatorum *Collosol* Argentum Ophthalmic has become a standard treatment and has been indicated by some authorities as the best local remedy for cases admitted with gonorrhœal ophthalmia.

Full details of packings and prices available on application.

for use in the treatment of

ALL TYPES OF CHRONIC INFLAMMATORY CONDITIONS, DERMATOLOGY, EAR, NOSE AND THROAT INFECTIONS

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Telephone: Willesden 6313 (5 lines) Telegrams: Collosols, Harles, London

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Consistent, dignified advertising at all times has achieved this proud result. Ample window and counter display material is still available for all Pharmacists.

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VERAMON does not affect the heart, the respiratory, renal or alimentary systems; is free from hypnotic action and need not interfere with the normal occupation of the patient. It does not lead to habituation.

PACKINGS: *Tubes of 10 tablets of 6 grains. Bottles of 100, 250 and 500 tablets. Powder in bottles of 1 oz.*

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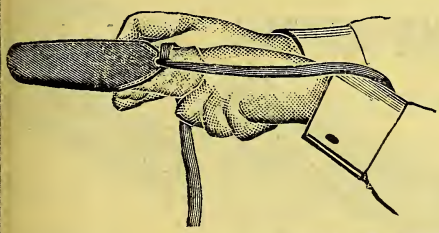

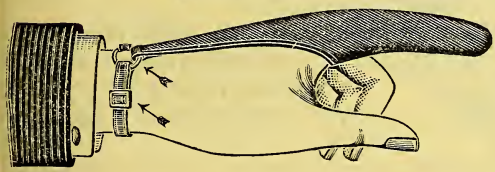

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PLEASE RETURN ALL EMPTY

VENO'S · ENO'S & THERMOGENE CARDBOARD RAILWAY CONTAINERS

Owing to the shortage of cardboard railway containers we have been compelled to make the return of these

A CONDITION OF SALE

We have introduced the following system so that the containers can be returned with the minimum trouble to you and ourselves, and feel sure we can count upon your co-operation in this important matter.

1. All cardboard railway containers to be carefully folded flat and securely tied together with string. (No paper wrapping needed.) Where necessary, container flaps should be tucked in to keep size of parcel within postal regulations, and smaller containers always packed inside the larger ones.
2. For return of containers, please use the addressed labels you receive with the invoices.
3. Cost of postage must be entered in the space provided on the Postal Receipt portion of the label, which also must be date-stamped by the Post Office.
4. The postage paid will be refunded on surrender of this receipt to our representative when he calls. This receipt cannot be accepted for direct credit and must not be deducted from your account.

To facilitate quick refund of postage, Macleans' representatives also are authorized to make payments against Postal Receipts, but *"Veno" containers must be returned to* **Manchester** *and "Macleans" containers always to* **Brentford.**

ENO DRUG CO. LTD., Manufacturing Chemists, Manchester 16

Remember the Name

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OF BRIGHTON

The SPECIALISTS

The name "COX" stands for

PERFECTION

in the manufacture of

PILLS and TABLETS

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MANUFACTURING CHEMISTS · BRIGHTON · ENGLAND

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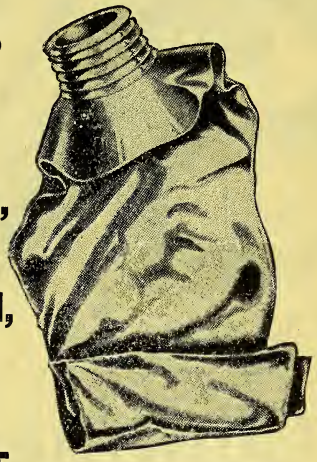
1839 ORIGINATORS OF THE TASTELESS COATING 1942

YOU MUST GET ME BACK FOR MUNITIONS!

TELL YOUR CUSTOMERS TO BRING ALL EMPTY TUBES, WHATEVER THEY CONTAINED—TOOTHPASTE, SHAVING CREAM, OINTMENT, RUBBER SOLUTION, ETC.—TO YOU, NOT TO PUT THEM WITH ORDINARY METAL SALVAGE, OR THE VITAL TIN AND LEAD THEY CONTAIN WILL BE LOST IN SMELTING



Take these steps now!

1. Each time you sell any tube product ask for the old tube (and any others the customer may have) to be returned.
2. Place any handy container (e.g., glass jar, cardboard box, etc.) on your counter, in which customers can place their empty tubes.
3. Fix the show card (which has been sent to you) to the container, and display the show bill in your window.

★ *Collection by Container Recovery Service from Chemists themselves will be made at intervals of 3 to 4 weeks. If, however, you have a fair stock of empty tubes already, or you think you have been overlooked, please write to the address given and special arrangements will be made.*

ALL PROCEEDS WILL GO TO THE RED CROSS & ST. JOHN FUND

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Issued by

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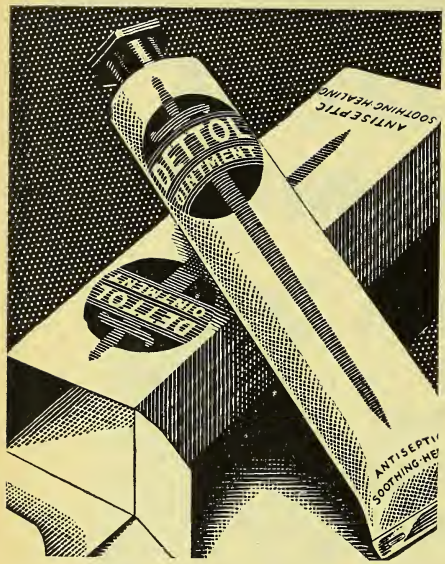

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presents the active germicidal principle (*P*-chlor-*M*-xylenol) of 'Dettol' antiseptic in a smooth, soothing base. The base is emollient and curative. It penetrates deeply, effecting close and prolonged contact between the bacteria and the bactericide. For all septic, and potentially septic, conditions of the skin, where an ointment form is preferable to a liquid antiseptic, Dettol Ointment may be recommended with confidence.

Packed in Tubes, also 1-*lb. jars for Hospital & Surgery use.*

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Face Powder Colours. Specially ground and sifted to simplify the manufacture of Face Powder. All Shades available.

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COMPOUND PERFUME. OIL. WATER AND SPIRIT SOLUBLE. Superior quality available at low prices. Samples now available.

PERFUMERY LABELS AND SEALS. New price list and full selection of Labels now available. Smart Designs.

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VANISHING CREAM

Prepare your own supplies of this high-grade Vanishing Cream. Easy to make up, costs less than 3d. per oz.

All materials available, also Stearic Acid, Lanoline, Perfume, Emulsifier, Agar Agar, Beeswax, Ceresine Wax, Spermaceti, Jars with screw caps and smart gold seal labels.

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Razor Blade Sharpener

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An Announcement of Interest

Thos. Christy & Co. Ltd. are anxious that their customers should know the latest position regarding certain products which they manufacture and distribute as circumstances are continually altering arrangements and supplies in these difficult and uncertain times.

GLYCO-THYMOLINE

Supplies of this famous product have been scarce owing to shortage of certain ingredients, but this difficulty has now been overcome by means of a slight alteration to the formula, which has not impaired the efficacy of the product in any way and which may be recommended as always with very confidence. Production is now going ahead and it is hoped that normal supplies will shortly be available.

ANTI-BI-SAN INFLUENZA PREVENTIVE

Last year many complaints were received from customers and members of the public to the effect that supplies of Anti-Bi-San were unobtainable, and many people were under the impression that this product was no longer being produced. Customers are therefore advised that ample stocks are available and will be so during the coming season and are asked to place their orders in good time to ensure prompt delivery.

ERGOAPIOL — (SMITH)

Owing to import restrictions this product has been off the market for some considerable time, but by arrangements with Martin H. Smith Company, New York, U.S.A., it is now being manufactured in this country. The formula will be slightly modified and supplies will be available in 3-4 weeks time when orders on hand will be attended to immediately.

CO-DE-CO

This Denture Adhesive which is second to none was instantly approved by the public and the Dental Profession, since its first introduction some eighteen months ago. In order that there shall be no possibility of the name Co-De-Co being confused with other similar articles, and also to give full scope to the slogan "Perfect Denture Control", it has been decided that this product shall be marketed under the name "Per-De-Co", as soon as present stocks of Co-De-Co are exhausted. It is perhaps unnecessary to add that the preparation itself will not be altered in any way. Customers are asked to make a very careful note of this change of name.

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more women at work-

increased

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Regd. Trade Mark

demand

War has brought a more strenuous life for many thousands of women. Naturally that is bringing an ever widening interest in Tampax; sanitary protection worn internally becomes a necessity as well as a convenience. This means something more than a temporary sales increase. Every new Tampax sale starts a regular demand that will increase your turnover not only today but *after* the war as well. The supply situation is well in hand and orders are being dealt with in strict rotation.

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(P.A.T.A. Prices)

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" " 10. " 15/9 " " 1/9 "

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Boric Lint
Picric Lint
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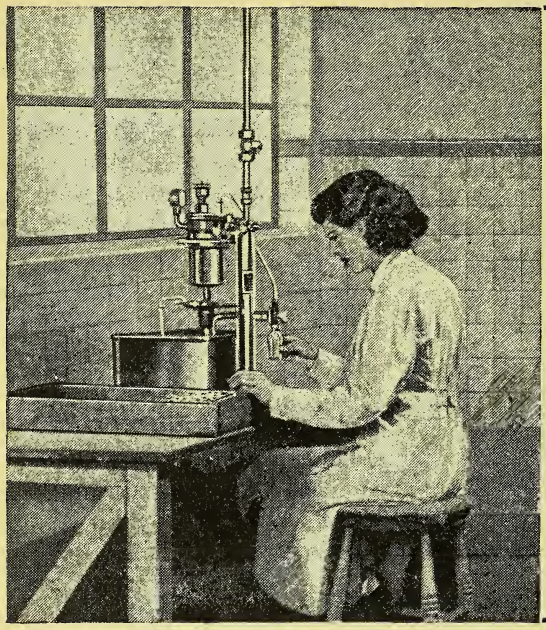

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Output up to 10 gross of small bottles per hour. There is an A L B R O machine for every filling need.

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WATSON'S ROAD, WOOD GREEN
LONDON, N.22

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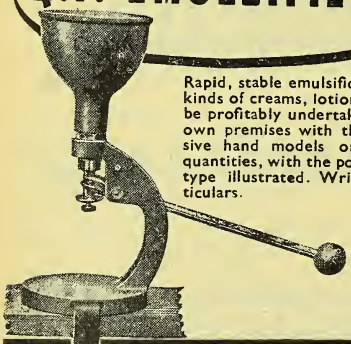
Q.P. EMULSIFIERS



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Best in Quality and Appearance — *Prompt Deliveries*

Self-Fixing

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LARGE STOCKS CARRIED

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Devonshire Works, Chiswick, London, W.4
Phone: Chiswick 2954/5/6

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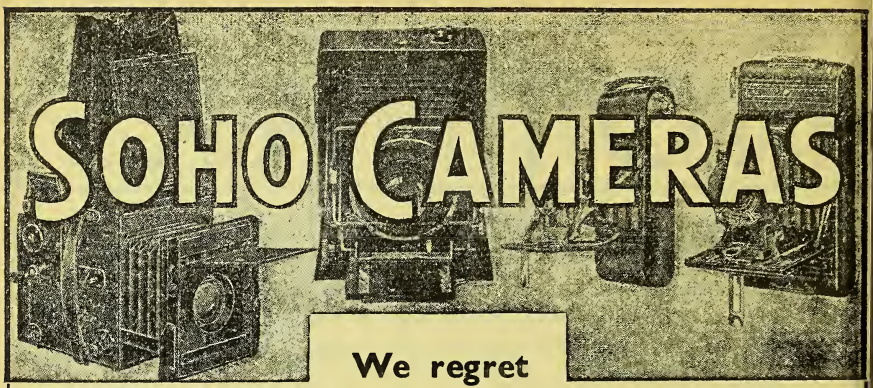

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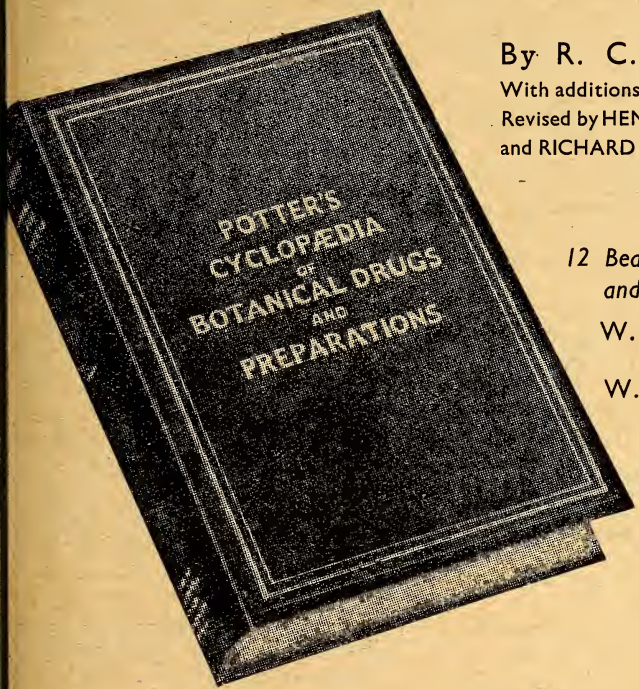

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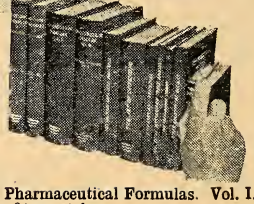

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NEWS OF THE WEEK

inchona Products Control.—Under the trol of Cinchona and Cinchona Products Synthetic Substitutes (No. 1) Order R. & O., 1604), which came into force August 13, the acquisition, disposal, tment and use of cinchona bark, its ducts and synthetic quinine substitutes controlled by the Ministry of Supply. Control covers the following:—

) Any bark, whether whole or ground or hed or in any other form, or any variety of species or hybrid of cinchona, and any aration thereof;

) Any alkaloid of any such bark as afore-, and any salt or derivative of any such loid, whether such alkaloid or salt or derivais in crude or pure form or any other form;

) Any totaquina or quinetum;

) Any mixture of cinchona alkaloids.

) Any cinchona febrifuge, or

) Any synthetic product or material which rding to current medical opinion is recogd as a specific for the prevention, alleviation ure of malarial infections.

he principal object of the Order is to restrict the use of cinchona bark, its products and quinine substitutes to persons requiring them for antimalarial or other purposes under medical direction. Copies of the Order may be available from the Stationery Office, Kingsway, W.C.2, during the coming week.

Toilet Preparations Limitations. — The Limitation of Supplies (Toilet Preparations) (No. 4) Order, 1942 (S. R. & O., No. 1512), has been issued by the Board of Trade, and copies may be obtained from the Stationery Office, Kingsway, London, W.C.2. The new Order amends the No. 3 Order and covers the period August 1–December 31, 1942. A full explanation of the new Order is given on p. 173 of this issue.

Application Refused.—At the meeting of the Gloucestershire Price Regulation Committee held at the Council House, Bristol, on July 31, it was decided not to grant a licence to Mr. F. Aston, M.P.S., to carry on a pharmacy at the Drug Stores, Lydbrook.

Sweets Ration Increased.—For the period beginning August 23 the sweets and chocolate ration for adults and children is increased to 3 oz. weekly.

Officers Elected.—The following officers of the Manchester and Salford Branch of the National Pharmaceutical Union for the coming year were elected at an executive meeting held on August 6: *Chairman*, Mr. W. Gee; *Vice-chairman*, Mr. E. Cronin; *Treasurer*, Mr. G. H. Haines; *Secretary*, Mr. T. Miller.

Edinburgh Examination Results.—In the Pharmaceutical Society's July examination in Scotland for the Pharmaceutical Chemist qualification, fourteen candidates were successful, eleven failed, twelve were referred and three were absent. The following satisfied the examiners: Ashley, M.G., Leeds; Baines, A. R., Thornton Heath; Bastow, A., Beeston; Cole, Julia, Bonnybridge; Coyle, D., Preston; Dallas, J. F., Edinburgh; Dinkel, G., Huddersfield; Driver, N., Keighley; Hall, C., Sheffield; Hoyle, H. V., Leigh; Mooney, G., Glasgow; Peberdy, W. G., Leeds; Pollard, J. H., Nottingham; and Rowley, S. G., Dewsbury.

Scholarship Awards.—The following scholarship awards were made as a result of the competitions held recently: *Jacob Bell Memorial*, Gordon Cecil Turton, 103 South Avenue, Southend-on-Sea; *Leverhulme*, Samuel Leigh, 105 Clissold Crescent, London, N.16; Frank Calton Cooper, 17 Pulteney Grove, Bath; William Kenyon, 29 Cromwell Terrace, Blackburn; *Manchester Pharmaceutical Association*, Robert Hark, Scowcroft House, Hindley Green, Wigan; *Devon and Cornwall*, Alan Moore Hunt, 10 Glendower Road, Peverell, Plymouth; *Nottingham University College*, Geoffrey Shaw, Skiers Hall, Elsecar, Barnsley; Samuel Leigh, 105 Clissold Crescent, London, N.16.

Society's President in South Wales.—On July 30 pharmacists from Glamorganshire and Monmouthshire joined members of the Carmarthenshire, Cardiganshire and Pembrokeshire Branch of the Pharmaceutical Society in welcoming the president of the Society (Mr. W. Spencer Howells). Mr. Spencer Howells, a native of Carmarthenshire, is the first Southern Welshman to become president. He served his apprenticeship with Mr. Walter Lloyd, Carmarthen, father of the present vice-chairman of the branch. The chair was occupied by Mr. G. H. Lloyd, Solva (branch chairman), supported by Mr. J. M. Lloyd, and the veteran secretary (Mr. John Gowe Llanelly). The chairman spoke of the ear associations of the president with t ancient borough, and congratulated t large assembly which had come to do hi honour. Mr. Spencer Howells voiced h pleasure at meeting so many old frienc and proceeded to deal with the Pharma and Medicines Act, 1941, expecially respect of Sections 1, 8, 9, and 11; t position of the pharmacist and his staff relation to military service; the post-w position of pharmacy; and the thi report of the Retail Trade Committee. the ensuing discussion Messrs. W. Par Williams, Pugh Davies, Glyn Thom D. Stanley Davies, W. Oswald Davi B. R. Lewis, D. G. Evans, L. J. Meyl D. Edwards, and others took part. T meeting forwarded a message of congratu tion to Mr. Hugh N. Linstead, M.P. A complimentary dinner held the sa evening at the invitation of Mr. John Lloyd (vice-chairman of the Branch) abo seventy guests participated. The toa included "The Pharmaceutical Society Great Britain," proposed by Mr. Pu Davies, the president responding; "T Carmarthenshire, Cardiganshire and Pe brokeshire Branch of the Society," wh Mr. B. R. Lewis proposed, and Mr. G. Lloyd (chairman) replied to; "The Visitor proposed by the host, Mr. J. M. Llo responses being made by Mr. Willi Lloyd, F.R.C.S., and Mr. Rowland Jam J.P. Musical items were rendered Messrs. W. L. Perry, M.P.S., and Phillips. A presentation of a mo coracle, the unique local fishing craft, w a menu card bearing the signatures of the guests, was made by Mr. W. Pa Williams on behalf of the Branch to president.

Deposit Charges on Containers.—T Ministry of Food announces that an Or will soon be made prescribing the dep charges and allowances to be made for cases, crates, bottles, syphons and ot containers used in the soft drinks tra This is designed to facilitate the smo operation of the scheme for the concent tion of production and the compensat of closed-down factories. Manufactu are advised to put these charges into op tion as soon as possible so that when Order is made they may be ready to com with its provisions. Particulars may obtained from the Secretary, the S Drinks Industry (War-time) Associati Grosvenor House, Park Lane, London, W

TOPICAL REFLECTIONS

egional Discussion

The suggesion of the Hull Branch of the harmaceutical Society, with reference to e post-war position of pharmacists, that egional committees for discussion be rthwith established" (p. 140) is a useful ntribution to a subject of great importce—a subject, it may be added, that you ve consistently given due prominence. e Council of the Society having already cided for the present against holding anch representatives' meetings, general d sectional, one could hardly expect it to vour the Hull suggestion; but I hope t regional discussion will be instituted, spite of present restrictions on travelling. anches suitably placed can take the tiative without indulging in elaborate liminary correspondence, and can resolve a systematic "follow-up" to consolidate l extend their plans of campaign. Variain in local conditions should render this d of discussion more helpful at the sent stage than general discussion would

Why the Hull Branch appended a ond resolution deploring the failure of Council to do more concerning the ition of pharmacists in the Forces it is icult to understand. If there is one ject on which the Council has been sistent in season and out of season, ely it is this. It will be noticed that the st Ham Association, one of our most rgetic bodies of qualified people, has, nuch the same way, harked back to the l-worn topics of the Council election and branch representatives' meeting (p. 134). an only be supposed that, to adopt an ineering expression, the bearings have ome overheated in this quarter.

pensing in New Zealand

Iore will no doubt be heard of the ial Security Dispensing scheme in New land (p. 151). So far as I am aware, this minion is the first country in the world et up a system of free dispensing—or, uote the phrase used, dispensing "free ny direct charge"—without regard to income limit. On the face of it, the ersal adoption of a similar scheme, igh subject to variations arising from onal diversities, does not appear to be ed by any fundamental difficulty. In country the representatives of phar- y have always contended that dising is of one quality only, the best. official prices paid to chemists in the Dominion appear adequate, judging from the few details given in your article. However this may be, British panel chemists must insist, if any scheme of the kind is proposed here, on a very different scale of contract fees from their present one before they consent to take part in its working. Such a scheme would mean the virtual end of "private" dispensing; and we have only to think for a moment on what the attitude of the medical and dental professions would be to the abolition of their personal practices in exchange for a state system, in order to infer what our attitude should be. It may happen that this question will before very long become "practical politics"—often, I fear, a euphemism for the squeezing of those who cannot or do not stand up for themselves.

Music Accompanying Work

The question of the utility of music as an aid to work, and in particular to work of a monotonous nature, is not new; but the British Broadcasting Corporation, in investigating the subject in its amateurish way (p. 150), appears to have tied itself up in a knot. If we take three statements cited by you, (*a*) "music can also be a help if it it is not too intrusive," (*b*) "the possibility of taking attention from the work in hand," (*c*) "good, if the workers themselves join in singing or whistling," it is hard to discover how the first two can be reconciled with the third. The familiar joke about the most desirable music being that which does not interrupt conversation is found in the biography of Sir Charles Hallé, who was a victim of it about the year 1848, when he first came to England; this may be its actual *locus classicus*. The difficulty is that either music is worth listening to or it is not: in the first case serious attention is required, but in the second the music appears to be out of place. What would be really useful in factories and places where, as in quotation (*c*), they sing or whistle, would be a background, not of music but of patterned sound, not too insistent and not continuous. Why should not some of the exponents of atonality and polytonality of the past twenty years or so—the difference between them, for the hearer, suggests that between tweedledum and tweedledee —be given a further trial by way of what I have called a background? The workers' "break for music," when it came, might be the more welcome.

Xrayser

TRADE NOTES

Now C.F.—Elmbalm Pharmaceutical Specialities Co., Knott-End-on-Sea, Lancs, state that the Elmbalm specialities are now on the Chemists' Friends list, and the wholesale price has been reduced. Bonus terms are available.

Chocolate Laxative Drops.—Steps have been taken by the Betalax Co., London and Blackpool, to bring deliveries up to date to meet the unprecedented demand they have received for Betalax chocolate laxative. Trade terms are given elsewhere in this issue.

Johnson (Agencies) Co., 46 Hawkhurst Way, West Wickham, Kent, have taken over the sole distribution of Vola Seltzer tablets, manufactured by the British Seltzer (1942), Ltd., 74 Fore Street, Kingsbridge, Devon. All orders are being dealt with in strict rotation.

Supply Position Outlined.—Information as to the availability of stocks to meet the demand for the specialities (Asthmolysin, Posterisan and Kathiolan) of Charles Zimmermann & Co., Ltd., 9–10 St. Mary-at-Hill, London, E.C.3, is given in an advertisement elsewhere in this issue.

Razor-blade Sharpener.—A means of solving for customers the problem of restricted blade supplies is offered in the Razola razor-blade sharpener, manufactured by Razola Industries, Ltd., 1 Newton Street, London, W.C.2, and obtainable through trade wholesalers. Terms are given on another page.

Label and Carton Printing.—Formed by the fusion of Brown & Rawcliffe, Ltd., label printers, and the P.P. Press, colour printers, Brown & Bibby, Ltd., King Edward Street, Liverpool, 3, have at their disposal three specialised plants covering five acres of ground and six hundred workpeople. These facilities are available to manufacturers needing folding boxes, labels and similar items produced by either letterpress or photo-lithographic methods of printing.

Educational Books.—W. & G. Foyle, Ltd., 119–25 Charing Cross Road, London, W.C.2, have large departments for supplying textbooks of chemistry, physics and all other branches of science. A catalogue will be sent free on request.—Attention is drawn on another page to "Potter's Cyclopædia of Botanical Drugs and Preparations," by R. C. Wren, F.L.S., published by Potter & Clarke, Ltd., 60–64 Artiller Lane, London, E.1.—A valuable series books for students of pharmacy is availab from THE CHEMIST AND DRUGGIST. Th series includes "The Art of Dispensing, "Handbook to Pharmacy," "Latin f Pharmaceutical Students," "Pharmace tical Botany," "Practical Pharmaceutic Chemistry," "A Textbook of Pharm cognosy," "Theoretical Pharmaceutic Chemistry," "Tutorial Pharmacy," ar others. Further details from the Publishe 17 Argyle Street, Bath.

Packaging Economies.—To meet sho ages of containers caused by limitations the use of fibre-board cases imposed by t Paper Control, Milton antiseptic and Milt denture powder are being dispatched retailers in returnable wooden cases charg at a high figure which is credited in f on return of case. The makers, Milt Antiseptic, Ltd., Chapel Lane, Sands, Hi Wycombe, Bucks, ask chemists to contin returning the fibre-board cases already circulation, credits being allowed on generous scale.—Thompson & Capp Wholesale, Ltd., 5a Speke Hall Ro Liverpool, 19, point out that their special Mothaks will not travel satisfactorily unl packed in the special cartons in which was issued. There is now a shortage these cartons and an appeal is made return them in order that future deliver may be ensured.—Veno Drug Co., Lt Manchester, 14, have made it a condit of sale that cardboard railway contain are returned to them. Arrangements the return are detailed in an advertisem in this issue.

Educational Institutions.—Informat about courses of training in pharmacy a allied subjects is given in advertiseme in this issue by the following institutio PHARMACY (Intermediate): Salford Ro Technical College; Southampton Univ sity College; Wolverhampton and Staffo shire Technical College; (Intermedia Chemist and Druggist Qualifying; Phar ceutical Chemist Qualifying and Inter diate and final B.Pharm.): Aberde Robert Gordon's Technical College; mingham Central Technical College; Br ford Technical College; Bristol Merch Venturers' Technical College; Chelsea P technic School of Pharmacy; Edinbu Heriot-Watt College; Glasgow Royal Te nical College; Leicester College of Te nology; Liverpool School of Pharma

nchester University School of Pharmacy; ymouth and Devonport Technical Col- ge; and Sunderland Technical College.— EDICINE: University of St. Andrews.— ENTISTRY: Royal Dental Hospital of ndon.—OPHTHALMIC OPTICS: National sociation of Opticians; Scottish Associa- n of Opticians; C. A. Scurr.—SCIENCE: iversity of St. Andrews.

Business Changes

BIRMINGHAM GENERAL DISPENSARY re- oved on August 10 to 41 Newhall Street, rmingham 3. Telephone: Central 1002.

MR. E. A. COX, M.P.S., 454 Lodge Avenue genham, has taken over the business of . H. Proctor Smith, M.P.S., 23 Hampden uare, Southgate, London, N.14.

IMPERIAL CHEMICAL (PHARMACEUTICALS), D., have removed their commercial offices in Manchester from Hexagon House to 89 Oxford Street, Manchester, 1. Telephone: Central 4444.

SIMPSON & MCCONNACH, chemists (Mr. John McConnach, M.P.S.), 23 King Street, Aberdeen, are closing the business. Trust deeds in favour of Mr. George S. Esson, solicitor, Aberdeen, have been signed by Mr. McConnach and by the firm.

MR. ALEXANDER GIBB BRUCE, M.P.S., has taken over from his mother (the executrix) the pharmacy formerly carried on by the late Mr. Alexander Gibb Bruce, M.P.S., 3 Melville Terrace, Edinburgh. He will continue to trade under the name of A. G. Bruce. Mr. Bruce will collect all accounts due to the business prior to the date of sale, and will be responsible for all debts incurred since that date.

COMPANY NEWS

EUCO (TOOLS), LTD. (P.C.)—Capital ,000. Mechanical, medical, hospital, ntal and general engineers, etc. R.O.: sedale Works, Rosedale Road, Richmond, rrey.

E. A. BOWER & CO., LTD. (P.C.).— pital £300. Chemists, druggists, etc. arles R. Hawes and Mrs. E. A. Bower, ectors. R.O.: 48 Terrace Road, Walton- Thames, Surrey.

VAROPLAST, LTD. (P.C.).—Capital £500. olesale and retail chemists, druggists, balists, and perfumers' sundriesmen, . Alfred E. Kirk, managing director. O.: Ruebury, Littleworth Road, Esher, rrey.

CORK SUPPLIERS, LTD. (P.C.).—Capital ,000. Cork importers, manufacturers and lers; manufacturers of cork products. st directors to be appointed. Secretary: thur Mudle. R.O.: 36 Long Lane, chley, London, N.3.

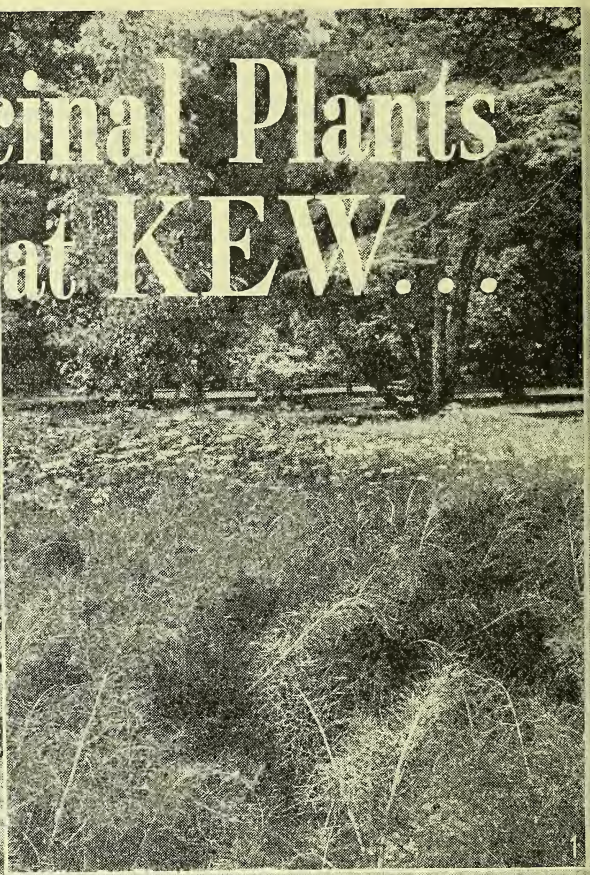
ARTHUR RICH & PARTNERS, LTD. (P.C.). apital £500. Manufacturers of and lers in chemicals, drugs, medicines, etc. st directors to be appointed. Solicitors: bert M. Oppenheimer, 26 Bury Walk, ndon, S.W.3.

MAYDEN MANUFACTURING CO., LTD. C.).—Capital £500. Wholesale and retail lers in fruit juices, oils, syrups, con- trates, etc. First directors to be ap- nted. Solicitors: Davenport, Lyons & rker, 209 Hammersmith Road, London, 6. R.O.: Silverdale Road, Hayes, ddlesex.

PLYFORMERS, LTD. (P.C.).—Capital £2,000. Manufacturers of and dealers in plastic modelling and moulding materials, wireless, scientific instruments, rubber, gutta percha and vulcanite, and goods made therefrom; drugs, etc. William Doherty, accountant, and Richard Faulkner, accountant, directors. Solicitors: Barlow, Parkin & Co., 21 York Street, Manchester 2. R.O.: 87 Cross Street, Sale, Cheshire.

SANGERS, LTD.—Directors' report and balance sheet for year ended April 30, 1942, shows net profit, including dividends, interest receivable and transfer fees, and after adjusting reserves, £237,815; balance from 1941, £161,009 (less final dividend on ordinary stock of 15 per cent. (less tax) paid August 31, 1941, £45,206), making a total of £353,618. Allocated to income tax and N.D.C., £148,853, and dividends paid (less tax) on 5½ per cent. preference stock, to January 31, 1942, £9,900; 7½ per cent. preference stock, to January 31, 1942, £9,375; interim dividend of 5 per cent. on the ordinary stock on February 4, 1942, £15,069; transferred to contingency reserve, £11,000, leaving a balance of £159,422, which directors recommend be appropriated as follows: Final dividend of 15 per cent. (less tax) on the ordinary stock (making with the interim dividend of 20 per cent. for the year ended April 30, 1942), £45,206, leaving a balance to be carried forward of £114,216. Mr. R. Peck offers himself for re-election. General meeting, London, August 18, at 12.30 p.m.

Medicinal Plants at KEW...



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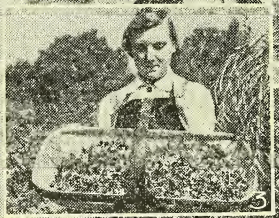

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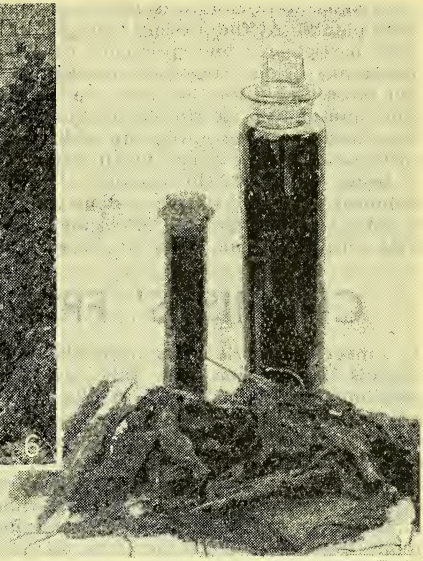

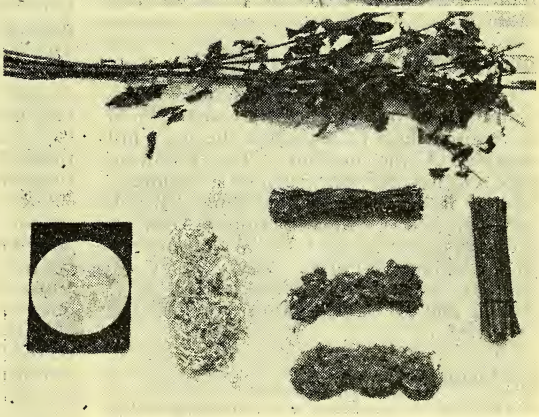

posite Page.—1. Fennel and (back-und) dill plots at Kew Gardens. econd crop, two-year old belladonna nts (for leaves). 3. First crop, fruits two-year old belladonna plants. icking belladonna berries. 5. General w of belladonna plot (see 2).

ve.—6. Wild nettles collected in Kew dens. 7. Chlorophyll from nettle ves. 8. Stages in isolation of nettle-n fibres.

The Gardens": ar-time Activities

ME of the war-time activities carried t at the Royal Botanic Gardens, Kew, rrey, are illustrated on this and the posite page. It is natural that this tional institute—the headquarters of the ence of botany—should be directly ociated with the present interest in the tivation of medicinal plants in England. hile specimens of practically all the prin-al plants used in medicine are normally be found at Kew Gardens in the wild d cultivated forms, it was only during e last year that special attention was voted to the cultivation of certain plants larger experimental beds. Trial plots of fennel and dill plants were established in the main portion of the gardens early this year and the present condition of the plants can be seen in the large picture on the opposite page. The object of these latter plant-beds is to stimulate a general interest in the subject of cultivating medicinal plants rather than to investigate problems of cultivation for commercial purposes. Belladonna cultivation, however, is carried out on a somewhat larger scale in the nurseries of the gardens. Here separate plots are given to belladonna grown for seeds on the one hand, and for the leaves on the other. Several hundred-weights of

belladonna were obtained last year from these plants. At the present time there are some particularly fine specimens of belladonna at various stages of development, and those grown for the seeds are bearing some unusually large ripe fruits which can be seen in Fig. 3 on p. 164. In addition to medicinal-plant growing, much attention is being given at the moment by the technical personnel of the gardens to the investigation of vegetable fibres for industrial purposes. One item of interest in this connexion is illustrated (Figs. 6–8). T wild nettles are collected in the garde dried, and the leaves separated from t stems. The former are then used for t extraction of chlorophyll and the latt are treated to enable the long stem fibr to be teased out. These are digested remove adhering tissues, washed, and final bleached to produce fine silken fibres whi are used in making a valuable form filter paper. The various stages in t process can be seen in Fig. 8 (p. 167).

CHEMISTS' FRIENDS ASSOCIATION

At a meeting of the council of the Chemists' Friends Association on July 21, the president (Mr. J. Hearle) in the chair, lengthy discussion took place on the standards to be required by the council before a product could in future be accepted for inclusion in the C.F. list. Every member expressed views, and all agreed that some change in the present method of considering applications from manufacturers was desirable.

Subcommittee on Standards

It was resolved to appoint a special subcommittee to decide what standards should be required and to report at the next full meeting of the council. The following were elected for the purpose: Manufacturers, Messrs. E. W. Godding (British Colloids, Ltd.); E. C. Cripps (Allen & Hanburys, Ltd.); and W. W. Knott (or Mr. Lambert) (Parke, Davis & Co.); retailers, Messrs. E. A. Brocklehurst, S. J. Stearn, and G. A. Mallinson (representing the N.P.U).).

List Changes

An application from a manufacturer for the addition of his name to the C.F. List and an application for the addition of a further product to the schedule of an existing C.F. agreement were deferred for consideration at a later meeting. The additions of Elmbalm Pharmaceutical Specialities Co., Knott End-on-Sea, Lancs, and Elvesol Laboratories, manufacturing chemists, Whitefield, nr. Manchester, to the C.F. list were confirmed: both had agreed to an amendment in trading terms required by the council prior to acceptance. Two applications for inclusion in the list of approved distributors by wholesale were rejected. Resinol medical products being no longer available for distribution in the British Isles, it was agreed that they shou be deleted from the list. Two man facturers submitted details of amend terms in respect of certain of their produ in the C.F. list; these were approved by t council.

Other Matters

Application of zoning in the confectione industry to pharmaceutical products was matter referred to the Drug Trade Counc The secretary of the Scottish C.F. Co mittee reported that the Executive Coun of the Scottish Pharmaceutical Federati had decided, at its meeting held on June 1 to circulate all chemists in Scotland aski them to sign a definite form of agreement support of the C.F. movement. T council authorised the supply of C. products to two new businesses that h been opened under the Location of Ret Businesses Order, 1941. Twenty-sev applications were received for the ma tenance of supplies of C.F. products businesses that had been temporarily co verted into drug stores owing to w conditions; of these, seventeen we accepted, two were refused, and eight we referred back to enable further particul to be submitted.

Incendiary Bombs and Fire Precautio Second edition. 7¼ in. × 5 in. Pp. 55. 6 H.M. Stationery Office, Kingsway, Londo W.C.2. One of the series of Air-raid P cautions handbooks issued by the Minist of Home Security, revised in the light experience. It differs from the earl edition mainly in the addition of chapt on structural and general precautions a on fire-guard organisation. Written p marily for instructors, the booklet serv equally as a general textbook for f guards and householders.

NATIONAL PHARMACEUTICAL UNION

ETINGS of the Executives of the National armaceutical Union and Chemists' Deice Association were held at 4–5 Queen uare, London, W.C.1, on July 29, Mr. Evans in the chair. The secretary rerted that on July 20, in response to an itation, a deputation had been received the President of the Board of Trade to cuss the third report of the Retail Trade mmittee; the deputation was attended representatives of the Company Chemists' ociation. The deputation represented t the proposals contained in the report re unacceptable to pharmacists.

ctor Scheme

Negotiations between the Drug Trade uncil and the Ministry of Food had ulted in "recommended medicines" ng excluded from the scope of the ctor Scheme for the distribution of foods, . Manufacturers and wholesalers had w the opportunity to obtain licences to lude infants' and invalids' foods that wholly or mainly sold by chemists in xed consignments consisting predominly of medicinal and medical supplies retailers in any part of the country, ardless of sector boundaries. The P.U., in conjunction with the vinegar nufacturers, had also been successful ecuring exemption of bulk vinegar from Sector Scheme. The Drug Trade ncil was dealing with the proposed ned distribution of confectionery.

ters and Resolutions

A letter was received from the secretary, st Ham Pharmaceutical Committee, exssing that Committee's appreciation of efforts of the N.P.U. in obtaining an rease in the National Health Insurance pensing fee. The following resolution s received from the Hartlepools and strict Pharmacists' Association—

"That the secretary be instructed to write to Pharmaceutical Society and the National armaceutical Union, informing them that s Association strongly urges them to take atever steps lie within their power to counterthe growing tendency of stores of the olworth type to stock, show and sell through agency of young girl assistants, who have special knowledge of the goods they handle, dicines, supplies of which the qualified mist is, at the present time, unable to obtain. o to ask what steps (if any) the Society and N.P.U. are taking in the matter."

The secretary was instructed to point out that, apart from the provisions of the Pharmacy Acts, the only facilities for control in this connexion were provided by the Location of Retail Businesses Order, 1941; the difficulty in taking appropriate action was to get definite evidence that the goods had not been sold during the basic period fixed by the Order. A letter was received from the secretary of the East Antrim Association pledging full support for the C.F. movement and expressing thanks for the work that had been accomplished.

Air-raid Assistance Fund

The financial report on the N.P.U. Air-raid Assistance Fund for the year ended June 30 showed that the fund was in a much stronger position than at the close of the previous year. After providing for outstanding claims and creditors there was a balance of £5,801 available for contingent liabilities in respect of claims, apart from a reserve fund of £21,445 represented by members' loan accounts. Since the last meeting of the Executive one claim had been settled for £10. Subscriptions to the Union's War Distress Fund stood at £19,029.

Chemists' Defence Association

The settlement of four claims was reported to the directors and approved. All were for damage to clothing due to faulty packing, etc. The remaining claims were left in the hands of the secretary for negotiation and settlement. A member and his wife had been summoned for assault and fines of £1 each and costs had been imposed; three members had been summoned under the Prices of Goods Act. In one case the summons was dismissed under the Probation of Offenders Act, and the others were each fined £25 and costs. A member firm had been summoned under the Soap Rationing Order and a fine of £75 plus costs imposed on the firm and £50 and costs on the manager. Legal advice had been given to members upon a variety of subjects.

FACTS ABOUT IODINE.—In the latest edition of "Iodine Facts" recently issued by the Iodine Educational Bureau, Stone House, Bishopgate, London, E.C.2, are given fifty-four more scientific facts about the various applications of iodine. Among the "facts" are:—Iodoform in military surgery; the common cold; new aromatic germicides; iodine vapour therapy.

PERCAINE INSTEAD OF PROCAINE

An inquiry was held at Banbury, recently, into the circumstances attending the death of Arthur James Howey, who died in the Horton hospital. It was stated that deceased met with an accident and skin grafting treatment became necessary. The surgeon who performed the operation said he attempted a third graft on July 21, on which date he injected a 5 per cent. solution of procaine and proceeded with the graft. Shortly afterwards Howey had convulsions and died. In the previous graft operation he used a local anæsthetic from a stock solution. On July 21 he asked for procaine from a sister, who obtained the crystals from the dispenser.

Dr. Alistair Robb-Smith, director of pathology at the Radcliffe Infirmary, Oxford, said he conducted a post-mortem examination on July 22. In his opinion death was caused by heart failure and shock, and as there was no adequate explanation of these findings he inquired about the nature of the anæsthetic used. He had the contents remaining in a bottle of the solution used for the injection for Howey examined by Mr. O'Brien, biochemist at the Radcliffe Infirmary, and produced his report, which stated that the small amount of liquid in the bottle was a solution of percaine. Dr. Robb-Smith said the limit of the normal dose of procaine was two grams. The amount of injection given by Dr. Newton was 1·25 grams, which would have been perfectly safe if the substance had been procaine. The safe dose of percaine for an adult was reckoned as 0·12 gram. Howey thus received ten times the maximum dose of percaine, and this was the immediate cause of death. Percaine and procaine looked similar, and in his opinion there was no reason for Dr. Newton or the sister to question whether the solution in the bottle was not, as labelled, procaine.

Miss Eveline Brearley, M.P.S., dispenser, said, on July 21 she received a written slip from the theatre sister, asking for one gram of procaine. She used crystals from a bottle of percaine. Miss Brearley said she labelled the solution "procaine." The labels of both the bottles of procaine and percaine described them as local anæsthetics. She had heard of percaine but had never dealt with it in the pure drug form. Miss Brearley said she had never used procaine before coming to Banbury, but she had used percaine on previous occasions.

The Coroner said it was a distressing occurrence, and death was clearly due to an overdose of percaine given in the belief that it was procaine. The error was a perfectly honest one, though it was a very serious error to make. He recorded a verdict of "Accidental death through an overdose of percaine supplied in error," but felt he could not exonerate the dispenser. He thought it was regrettable that so many proprietary names existed for preparations of cocaine, when there was a similarly named product of a different character, and more dangerous nature.

TRADE MARKS

(*From "The Trade Marks Journal," July 22*)

"Nov-Era"; for industrial chemicals (excluding weed killers) (1), and for paints, preservatives, etc.; (2). By The Union Oxide & Chemical Co., Ltd., The Old Vicarage, High Street, Flitton, Bedford. 618,711–1 (Associated)

"Chieftain" over circular device of same; for concentrated colours for food and beverage (2). By British Fermentation Products, Ltd., Chieftain Works, Putney Bridge Road, London, S.W.15. 618,409 (Associated).

"Inca"; for all goods (2). By Allied Distributing Corporation, Ltd., 54 Piazza Chambers, Covent Garden, London, W.C.2. 619,007.

"Sinec"; for preparations for removing blemishes, etc., from products used as substitutes for glass, etc. (3). By O-Cedar, Ltd., Buckingham Avenue Trading Estate, Slough, Bucks. 618,631.

"Salazopyren"; for pharmaceutical and sanitary substances, infants' and invalids' foods and disinfectants (5). By Aktiebolaget Pharmacia, Lövholmsvägen 7, Stockholm 9, Sweden. 617,357.

"Sapamine"; for preparations of amines for use in medicine and pharmacy (5). By Society of Chemical Industry in Basle, 141–227 Klybeckstrasse, Basle, Switzerland. 617,484 (Associated).

"Unomol"; for pharmaceutical preparations and substances (5). By Unichem, Ltd., 21 Upper Tooting Road, London, S.W.17. 618,287.

"Salliocal"; for pharmaceutical substances (5). "Collomide"; for pharmaceutical preparations, all being amides (5). By Watford Chemical Co., Ltd., 50 South Audley Street, London, W.1. 618,30[illegible]. 618,434.

"Benecol"; for pharmaceutical substances for human and veterinary use, sanitary substances, infants' and invalids' foods, and disinfectants (5). By Benger's, Ltd., Holmes Chapel, Cheshire. 618,866.

AN EXAMINER'S POINT OF VIEW

Why Candidates Fail in Botany and Pharmacognosy

By W. O. Howarth, D.Sc., F.L.S.

A Member of the Board of Examiners, Pharmaceutical Society of Great Britain

RECENT results of the examinations of the Pharmaceutical Society of Great Britain (*C.&D.*, August 1, p. 125) show at 196 candidates entered for the whole the Intermediate examination, of whom venty passed, seventy-three failed, and ty-one were referred. Among the failures ere sixty-seven in biology. Altogether, 9 candidates entered for the Chemist and ruggist Qualifying examination, of whom nety-three passed, while the failures in harmacognosy amounted to thirty-two.

Why do candidates fail? There are finite reasons for failure and one of these not bad luck! Nor can the examiners blamed. On the contrary, they are most tient and sympathetic. They wish to ss candidates; sometimes they even sh them through. Border-line candidates e most carefully considered, their answer oks re-read and their practical work viewed, all with a view to finding those w extra marks required for a pass.

Unprepared Candidates.—An important son for failure is ignorance. Examiners e frankly amazed at the *blasé* optimism entrants who score less than 20 per cent. the total marks in a given subject. such candidates do not know their preparedness, then it can only be conded that there is something wrong in eir mental equipment. The entry of ch candidates reflects discredit on themlves and on the institutions which enter em. Examiners realise that many candites attempt to learn parrot-fashion and not try to understand what they are arning. The minds of such candidates ork in a rut out of which they cannot be tricated. Examiners frame their questns in such a way as to make candidates ink. The questions are based on the harmaceutical Society's syllabus, and the ciety's officers keep a watchful eye on aminers' questions so as to make quite re that they are within the syllabus. ndidates should acquaint themselves th the syllabus to find what is expected them. Then they should set to work th a will to master the facts. The only tisfactory way to do this is to attend fullne courses at a recognised institution. e Pharmaceutical Society, watching the ndidates' interests as well as its own, has wisely made this compulsory. But mere attendance at such courses is not sufficient; there must be the will to learn. The lectures should be supplemented by reading, and practical work in both biology and pharmacognosy should be carried out on actual specimens. The practical notebooks of some students show evidence of dependence on illustrations from books and rough diagrams which a teacher may have made on the blackboard in the course of a lecture. In the theory papers it is obvious to the examiner that many candidates have not seen the objects which they attempt to describe.

Examination Hints.—At the examination the candidate should read the questions and instructions carefully, and decide which questions to answer and in what order. He should answer first, in as much detail as possible, those which he knows best, freely using diagrams by way of illustration. While it is advisable to allot so much time to each answer to be attempted, it is not essential to answer all the questions required. For instance in a paper involving five questions, a candidate could comfortably pass on three good answers. Hence lack of time is no excuse for failure.

The candidate should ensure that he understands what the examiner requires by reading the questions carefully. The wording of a question frequently suggests a definite order in the answer. Candidates should make rough notes on scrap paper, jotting down the facts as they come to mind, then arranging them in an orderly sequence. The answer should be clear and concise; irrelevant matter should be omitted. Many candidates do not stop to think before committing themselves to paper. Here is an example taken verbatim from a candidate's paper at a recent examination. The question was on the structure of *Pinus*, and the candidate began: "The structure of the root of Pinus is very similar. When it first starts growth it is somewhat different however." Nothing preceded this statement, so that there was no question of comparison!

Excusable Mistakes.—Having written the answer to a question the candidate should read through it critically. Slips and

omissions are quite likely to be found. The examiner may recognise a genuine mistake, but he cannot overlook consistent confusion, for example, in the use of technical terms (such as archezonium and oozonium, ovule and ovum). Statements should be supported by evidence. Thus it may be correct to say that the embryo-sac of a flowering plant is homologous to a megaspore, but the reasons for this view should be clearly stated. Examiners can only give marks for what the candidate states on paper; they cannot guess what is in his mind. If, as in pharmacognosy, the examiner asks for the systematic description of a drug according to a suitable scheme, he can only give full credit where this is provided.

Practical Work.—Candidates may get good marks in theoretical examinations, but come down badly in practical work. The causes are various. An important part of the examination in practical botany is the cutting and mounting of a section of a plant organ, and a description of its structure by means of annotated diagrams and drawings. Such a question carries at least a third of the marks, and about an hour of a three-hour paper should be devoted to it. Much time is wasted in the actual cutting and mounting, for which relatively little credit is given. Candidates persist in unnecessarily double-staining and permanently mounting a preparation. Recently a candidate was observed to devote about three-quarters of an hour to this alone. A thin section stained with iodine and mounted in dilute glycerin tells practically all that is necessary, and in fact, details of importance may be destroyed by the double-staining process.

Illustrations.—Much time is wasted by the failure of candidates to realise the difference between a diagram and a drawing. The former is intended to indicate the distribution of the various tissues in the section, while a detailed drawing should give a clear representation of the cells which compose these tissues. Thus it is waste of time to put cells in the diagram, or to draw cells diagrammatically in the detailed drawing. The diagram should be purely conventional. On the other hand, the individual cells of the detailed drawing should be drawn accurately from cells observed under the microscope, using the $\frac{1}{8}$th objective and the number 2 or 4 eyepiece. The candidate should not attempt too much in the detailed drawing. A representative strip is usually most satisfactory, with gaps, if necessary, to avoid repetition. Attention should be paid to clear and ful annotation of both diagram and drawing especially noting the details of the latter. I practical pharmacognosy, to identify drug wrongly renders the whole answe valueless. An answer should show a logica sequence which leads to the identificatio of a drug. This is particularly applicable t unorganised drugs, as, for example, aloes The correct procedure is (1) physical an sensory characters; (2) application c general tests which confirm aloes; (3 applications of special tests which give th variety of the drug; (4) tests for purity an conformity to B.P. standards.

Ph.C. Examination.—In pharmacognos of the Ph.C. examination much weakne lies in histological work. The methods Greenish and Wallis, of the Society School of Pharmacy, should be carefull studied and followed. It must be borne i mind that an important end in histologic investigation is the recognition of minu particles of the powdered drug under th microscope. Such particles are seen in th solid, from all angles, and may be mixe with particles of other parts of the san plant or of different plants. Critical i vestigation in detail is essential and ca only be accomplished by transverse ar longitudinal, radial and tangential section macerations, and microchemical tests. S many candidates are satisfied with tran verse sections only, and proceed to cle such at once with chloral hydrate. Th treatment destroys important diagnost characters such as cell-inclusions, besid causing abnormal swelling of cell walls. is necessary to cut a number of sections a to test these separately with the vario reagents which bring out details of ce structure and contents. It is equally wro to restrict the examination of a powd containing organised drugs to a preparati cleared with chloral hydrate.

Whatever advice may be given regardi examinations, the result lies with t student himself. His work should consistently sustained throughout t course of instruction. A final cramming few days before the examination is to deplored.

CLOSED ON SATURDAYS.—Advertisers a subscribers are reminded that owing to w conditions the Head Office of THE CHEMI AND DRUGGIST, 28 Essex Street, London, W.C is closed on Saturdays until further noti Urgent instructions relating to advertising a subscriptions should be sent to the *C. & D* 17 Argyle Street, Bath, Somerset.

PERSONALITIES

Mr. Victor G. Stockwell, M.P.S., idge, Canterbury, has been elected a ember of the Bridge-Blean Rural District uncil.

Mr. W. L. Glen, B.Sc., Ph.D. (Glasgow), Phil. (Oxon), A.R.T.C., A.I.C., has ined the Edinburgh works staff of J. F. acfarlan & Co.

Mr. J. H. Thorpe, K.C., has been ap-inted chairman of the Central Price egulation Committee in succession to Mr. aymond Evershed.

Mr. Hugh N. Linstead, M.P. (Registrar, harmaceutical Society), has been ap-inted deputy-secretary of the Parlia-entary Conservative Health and Housing mmittee.

Mr. Montague T. Watson, M.P.S., owcroft Pharmacy, Stroud, Glos, has turned home convalescent from the West ondon Hospital, Paddington, W., where has been detained during the last six onths following a serious operation.

Sergeant H. Parry-Jones, M.P.S., angor, North Wales, who was attached a General Hospital in the Middle East, reported missing from Tobruk since ne 20. Prior to joining the forces he as employed by Curtis & Co., Ltd., emists, London, W.1.

DEATHS

Dean.—Recently, Mr. George Saville ean, chemist and druggist, Denehurst, . George's Crescent, Port Erin, I.O.M., ed seventy.

Hall.—At Ennesdene, College Avenue, aidenhead, on August 7, Mr. Allen Joseph all, M.P.S., 97 High Street, aged seventy-ven.

Hamilton. — Recently, Mr. Andrew amilton, M.P.S., 12 Alexandra Terrace, ransty, Whitehaven, aged sixty-seven.

Hiscoe.—Recently, Mr. Edwin Hiscoe, .P.S., 27 Dene Grove, Gosforth, New-stle-on-Tyne, aged fifty-eight.

Liston.—On July 23, Mr. Patrick Joseph iston, M.P.S.I., Limerick. Mr. Liston had een in business at 108 O'Connell Street r over forty years.

Melville.—At Bristol Royal Infirmary, ddenly, on August 2, Mr. Arthur H. D. elville, aged sixty-six. For more than fifty years Mr. Melville was associated with Francis F. Fox & Co., Ltd., oil and chemical merchants, of Bristol, during a major portion of which time he acted as Bristol and District representative and was well known and esteemed by the trade in that area.

O'Connell.—At Swinford, co. Mayo, on July 28, Dennis A. O'Connell, L.P.S.I. Mr. O'Connell qualified in 1916, and had been in business at Main Street, Swinford, for some years.

Payne.—On July 25, Hilliard Connelly Payne, M.P.S., 218 Ivydale Road, London, S.E.15, aged seventy-one.

Plomley.—At his home in Wimbledon, London, S.W., on August 6, Mr. Francis John Plomley, M.P.S., aged seventy-three. Mr. Plomley had carried on business in Kingston-on-Thames for about thirty-five years, retiring in 1934. He occupied the chair of Thames Valley Association from 1919 to 1921; he also took an active part in the affairs of the Kingston Chamber of Commerce. Mr. Leonard Higgs represented Thames Valley pharmacists at the funeral service on August 10.

Sharp.—Recently, Mr. Ralph Sharp, M.P.S., Kidderminster and District General Hospital, Kidderminster, aged thirty-five. At an inquest at Blackpool, on July 30, into the circumstances connected with Mr. Sharp's death, it was stated that while riding a cycle he was involved in a collision with a motor van. A verdict of death by misadventure was recorded.

Widdowson.—On July 12, Mr. George William Widdowson, Burgess Hill, Sussex, aged eighty-four. Mr. Widdowson qualified as a chemist and druggist in 1886.

RECENT WILLS

Mr. Walter Alexander Cheesman, M.P.S., 441 Great West Road, Hounslow, who died on May 2, intestate, left £3,687, with net personalty £966.

Mr. William Tod Louden, Ph.C., J.P., 47 Couston Street, Dunfermline, who died on February 16, left personal estate in Great Britain valued at £21,199.

Mr. Arthur Edward King, Ph.C., 565 Earlham Road, Norwich, for many years managing director of Fuller & Co., Ltd., Horse Street, Norwich, who died on March 28, has left £7,147, with net personalty £6,389.

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cial organ of The Pharmaceutical Society of and, The Pharmaceutical Society of Northern and, The Chemists' and Druggists' Society of and and of other Chemists' Societies in the Empire
L. CXXXVIII AUGUST 15, 1942 NO. 3262

e fact that goods made of raw materials short supply owing to war conditions are vertised in this paper or described in its torial columns should not be taken as an lication that they are necessarily available export.

Toilet Preparations—New Limitation Order

NEW toilet preparations Order (Limitation Supplies (Toilet Preparations) (No. 4) der (S. R. & O., No. 1512)) became erative on August 1, although copies re not available to the trade till August 8. nerally, the provisions of the Toilet Pre-ations No. 3 Order are to be continued a period of five months with the follow-additions and amendments.

ve-months' Quotas

With the exception of face powder and let dusting powder (excluding rouge, ge powder and powder compacts), which e free from quantitative control, the ota is 20 per cent. instead of 25 per cent. the supplies in the standard period (the ar ended May 31, 1940), i.e., 8⅓ per cent. ring the restriction period (five months ding December 31, 1942). This involves calculation of the manufacturer's quota allow for the exclusion of face powder d toilet dusting powder supplied during e standard period. Registered persons ay supply during the restriction period five months as their quota either 8⅓ per cent. of their supplies in the standard period or five times £41 13s. 4d. (£208 6s. 8d.), whichever is the greater. The quota is increased to the rate of 50 per cent. for those firms which are situated in approved areas (or those which have moved to these areas) and which participate in satisfactory concentration schemes (i.e. 20·8 per cent. during the five-months' period of the supplies in the standard period). Special licences will be issued to manufacturers who satisfy the department they qualify for this higher quota.

"Manufacturer" Defined

The registered person who processes raw materials for another is to be regarded as the manufacturer, whether he owns the raw materials or not, and the goods made must count against his quota. This means that the person who has raw materials made up for him by another is not the actual manufacturer, and has no quota in respect of these goods.

Unregistered Suppliers

Unregistered persons may not supply toilet preparations (excluding face powder and toilet dusting powder) of their own manufacture to an extent greater than £41 13s. 4d. per month. Unregistered persons may not supply goods of their own manufacture through a selling agent. They may only supply them across their own counter: under no circumstances may they sell goods of their own manufacture to persons who buy for re-sale. Although an unregistered person may supply face powder and toilet dusting powder of his own manufacture direct to the public without restriction, he may not supply these goods to persons who buy for the purpose of re-sale.

Compulsory Identification

On and after August 17, the name and address of the registered manufacturer of controlled goods must be printed, or otherwise indelibly marked on the package or wrapping. We understand that adhesive labels on which the maker's identity is disclosed, securely stuck on the container or wrapper, will be considered as complying with this regulation. This applies to the closed as well as to the nucleus firm under

a concentration arrangement. In the case of unregistered persons, the full name and full postal address must be shown. The regulation about name and address will also apply to manufacturers of face powder and toilet dusting powder. Where goods are made on behalf of another firm, even where the raw materials are supplied, the name and address of the actual manufacturer must appear.

Retail Sales

On and after November 1, it will be an offence to sell or offer for sale by retail any controlled toilet preparations (including face powder and toilet dusting powder) not bearing the name and address of the manufacturer or packer (see below) clearly marked on the package or container.

"Packing" Licences

Under the new Order packing, unless carried out by the actual manufacturer of the goods packed, will not be permitted except under a licence granted by the Board of Trade: this licence will limit the quantity of goods which may be packed and supplied. Applications for licences to pack controlled goods not of the packer's own manufacture should be sent to the Board of Trade, I.M. 4 Millbank, London, S.W.1. Packing is regarded as the process whereby bulk or pre-fabricated goods are put into the final unit container in which they are sold to the consumer. The full name and full address of the licensed packer or of the manufacturer must be placed on the package or wrapper. Licensed packers will be required to obtain and retain an invoice from the manufacturer, which shall include the latter's name and address, the kind, quantity and value of the goods supplied by the manufacturer, and the date of supply.

Controlled Goods Defined

The definition of controlled goods has been amended to make quite clear that medicated toilet preparations are included in the control. Controlled goods under the Order will not include goods controlled by the Ministry of Food under soap rationing. The Board will be prepared to consider applications from registered manufacturers for licences to supply shampoo, additional to their quota, on a 75 per cent. basis.

Pharmaceutical Education

Although the syllabuses of the vario examining bodies record no changes of gre importance during the past twelve month it must not be assumed, however, th educational matters are at a standstil Actually education in all its spheres ma be said to be in the melting pot, and the are likely to be great changes soon aft the war is over. Pharmacy cannot rema untouched by these developments, an should be planning accordingly. There a some in our ranks, and among the popul tion of the country generally, for th matter, who contend we should app ourselves exclusively to winning the w and leave the post-war planning until late Others consider that while winning the w is our first task, we must not lose sight the progress that is going on around us.

There is no doubt that the people of th country are determined to maintain progre in social reform, and if pharmacy is improve its position there is a need f drive along the path of educational advan and not for the predominance of a spi of stagnation. To achieve this progress may be necessary to sacrifice some of o preconceived ideas. For example, with a comparatively short time it may necessary to appreciate that the classroo is the pharmacy where the student serv his apprenticeship. Several factors a operating in this direction—among othe the difficulty of finding pharmacies which the apprentice can receive adequa fundamental training in view of the mode trend of pharmacy.

It has been customary for us to devo one issue of the *C. & D.* about this time year to the publication of education information, giving a review of the pr pects and facilities for obtaining qualific tions in pharmacy and its associated pr fessions—medicine, dentistry, science, o tics, veterinary surgery and chiropod This year sees a break with tradition, d to the paper shortage. We have, howeve included articles of exceptional education interest, namely, "An Examiner's Point View," "Pharmaceutical Education in t U.S.S.R.," "Medicinal Plants at Kew and a description of the Merchant Venture School of Pharmacy at Bristol.

LEGAL REPORTS

Committed for Trial.—On a charge of ving been concerned together in receiving boxes of rouge, value £29 5s., the pro- ty of Max Factor, Hollywood & London les), Ltd., knowing them to have been len or unlawfully obtained, Samuel nza, a soldier; Morris Sherman, a tcher bearer, 22 Darenth Road, Stam- d Hill; Morris Ganellin, a toilet requisite ler, 136 Kingsland High Street, Hack- ; and Samuel Fisher, a toilet requisite ler, 24 Fuller Way, Croxley Green, kmansworth, were committed for trial the London Sessions at the conclusion a special sitting at Clerkenwell Police urt on August 7.

Receiving Stolen Tooth Paste.—Morris nellin, a toilet requisite dealer, 136 ngsland High Street, Hackney, was sent prison for a month and ordered to pay costs, or a further month's imprison- nt, at Clerkenwell Police Court, on gust 7, for having been concerned with ers in receiving four cartons, each con- ning six dozen tubes of Maclean's tooth- te, value £9, the property of Allied ight Services, Ltd., knowing it to have n stolen. For having been concerned h Ganellin in receiving the tooth paste, omon Grodzinsky, a tailor, 185 Evelyn urt, Amhurst Road, Hackney, and Sidney don, a hairdresser, 68 Stoke Newington ad, were each fined £20.

Charges Against Directors.—At Clerken- l Police Court, London, on August 7, spiracy as directors between April 17 l December 31, 1941, to defraud two npanies—Woodlands Chemists, Ltd., and H. Price (Wholesale Chemists), Ltd., 2 wther Road, Holloway, London, of ir moneys was alleged against William nry Johnstone, chemist, of Netherleigh, ental Road, Woking, and Harry Meyer vin, described as a former company ector, 69 Kings Court, Wembley Park. ey were also charged with fraudulently plying to their own use on or about y 15, 1941, £440, and on or about gust 8, 1941, £270, moneys of the two npanies. Mr. E. Clayton, for the Director Public Prosecutions, applied for a nand, which was granted.

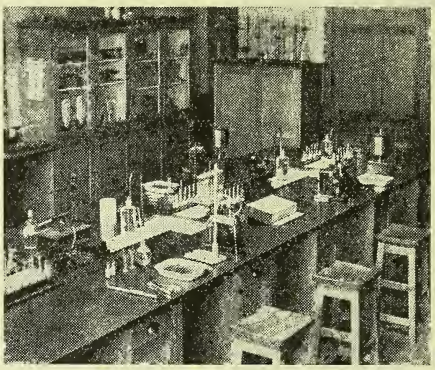
Claims for a Tonic.—At Leigh Police urt, on August 6, J. W. Flinn, Cambridge ad, St. Helens, trading as Phos-Vita nic Co., was summoned for a breach of Food and Drugs Act. The case arose from the sale of a bottle of tonic which it was claimed was a nerve strengthener, would build up new health, and restore energy and appetite. According to the prosecution, the contents of the bottle, when analysed, were found to contain 0·05 per cent. quinine sulphate, 0·05 per cent. phosphoric acid, 0·08 per cent. chloroform, 2 per cent. sugar, and 97·82 per cent. coloured and flavoured water. Medical evidence was that the tonic did not justify the claims made on the label and that any benefit derived would be purely psychological. Defendant, who said he had been selling this preparation for four years, was fined £15.

Chemist Awarded Costs.—Adjourned summonses against Mr. E. J. Wetton, M.P.S., trading as William Buddles, Chelsea, London, S.W., in relation to the sale of a drug described as Phosaquin Tonic, were dismissed at Bow Street Police Court on July 31, and he was awarded £5 5s. costs against the Westminster City Council. He was accused of selling at Churton Street, Westminster, the drug which was not of the quality demanded, "in that it was unfit for human consumption," and of giving a label calculated to mislead. Frederick Robert Page, trading as the Tonic Wine Co., Wendell Road, Hammersmith, who was brought up in custody from prison, was in turn summoned by Mr. Wetton, who claimed that if any offence had been committed it was due to Page's default. The magistrate, Mr. Dunne, ruled that there was no evidence that the drug was unfit for human consumption. On the summons relating to the label he ordered Page to pay a fine of £20. The alternative was fixed at fourteen days' imprisonment, to run concurrently with a sentence of three months' imprisonment passed on Page in the provinces for a similar offence in regard to the same preparation. The magistrate said the chemist, who was charged 3s. 6d. a bottle, said that its make-up was such as to suggest that it came from a reputable firm. The normal circumstances in which he made the purchase showed that, so far as he was concerned, the transaction was one to which no exception could reasonably be taken.

A MEETING of the Catholic Pharmaceutical Guild, Liverpool Branch, will be held at Cathedral Building, Brownlow Hill, at 3 p.m. on Sunday, August 16.

PHARMACY TRAINING IN THE WEST

HAD the war not intervened, the honorary degree recently conferred (see *C. & D.*, July 4, p. 5) at Bristol on an ex-president of the Pharmaceutical Society—himself the Somerset County representative on the advisory committee of the School of Pharmacy, Merchant Venturers' College—might well have been a Mastership in Pharmacy. For at that time negotiations were almost concluded between the Department and the University of Bristol by which a degree course in pharmacy was to be instituted jointly at the University and the Merchant Venturers' College. The declaration of war prevented the arrangement from taking effect. Despite this disappointing outcome, the governors and staff of the Merchant Venturers' School of Pharmacy can look with pride on the flourishing centre of pharmaceutical training they have organised in the West of England, especially since the incorporation within the College of the Bath and West of England College of Pharmacy thirteen years ago. The long history of enterprise of the Merchant Venturers' Guild is well known, and not the least important of its activities is its College, where, in normal times, all branches of technical education are catered for.



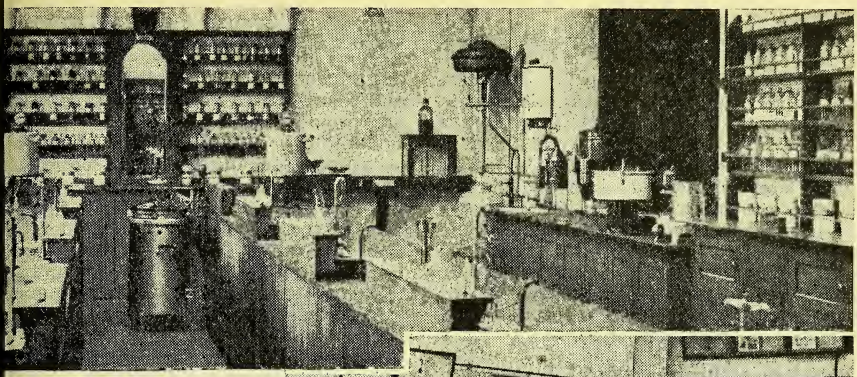
Physiology, etc., laboratory, Bristol School of Pharmacy

The School of Pharmacy

In 1929 plans were made for the opening of a School of Pharmacy, and the wise decision was taken to incorporate the Bath and West of England College of Chemistry into the College as a self-contained department. For since 1907 the "Bath and West" had been, under its principal (Mr. D. J. Williams, B.Sc., F.I.C., Ph.C., barrister-at-law), the recognised centre of pharmaceutical training in the Western Counties. When the transfer was made the Bath College was full to capacity; all the students and all but one of the staff re-enrolled at Bristol. From its inception the "Bath and West" had attracted students not only from neighbouring districts but also fr all other parts of the British Isles and r a few from abroad. Many were those of old students who gained distinction academic, administrative and munici affairs. The record of the present Sch is no less distinguished, and it may claimed that the sion of a twenty-tw year-old traditi with the resour and facilities of Guild has prov wholly benefici With the acti co-operation of Governors and the principal of College (Profes Andrew Roberts D.Sc., F.R.S.) a n dern and har somely-equipp school was plann and completed. T school of pharma occupies the whole the fourth and p of the third floors of the College, with p use of laboratories and other rooms lower floors of the building.

Dispensary

The department embodies plans devis by Mr. Williams as a result of his lo previous experience in teaching. An exa ple is to be found in the dispensary, in whi the benches are in two rows with gangw between, the students facing inwards. T allows the instructor or examiner to assi correct, or scrutinise the student's w without in any way obstructing him. F banks of bottles and jars on the side wa contain identical sets of the drugs a galenicals in most frequent use. Each ba is reserved for one-fourth the number students using the dispensary (twenty c work in comfort at a time). Tiers at eit end of the rectangular dispensary ho drugs less constantly handled. Dry poiso are kept at one end, and liquid poisons at t other, with a separate yale-locked cupboa for dangerous drugs. Each student has own dispensary scale, with access to anot of different pattern for special purpos and his own set of appliances for routi dispensing. Other apparatus is shar between pairs of students; all is compac



HOOL OF PHARMACY, RCHANT VENTURERS' LLEGE, BRISTOL

e end of the dispensary.
anical laboratory.
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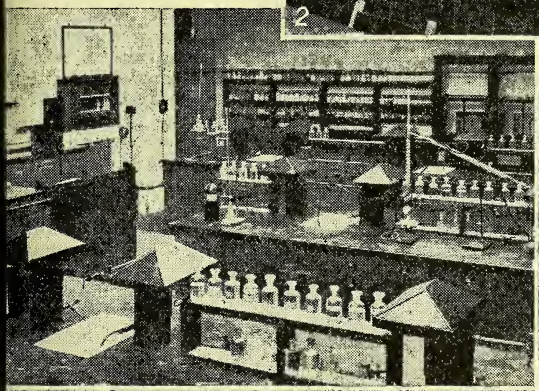
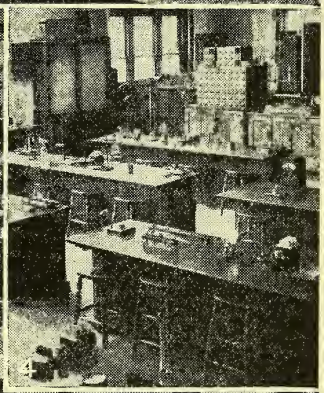
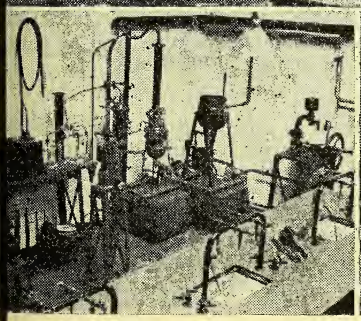
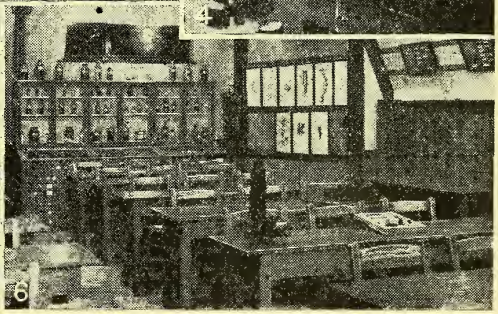
rner of the laboratory of pharmatical technology.
rmacognosy laboratory and eum of materia medica.









arranged in enclosed lockers to which there is no unauthorised access. Sterilisers of many patterns (Arnold, Sankey, electrically-heated high-temperature, etc.) are part of the equipment of the dispensary, and students have also the benefit of a constant flow of distilled water from a Manesty still. Other apparatus is available for more refined methods of distillation and for filtration, and a modern tablet machine, cold-compressing suppository machine, and Hearson electrically-controlled drying oven serve to give a thorough grasp of modern dispensary technique. Part of the section is devoted to tests, and for this purpose there is a modern incubator.

Laboratory of Pharmaceutical Technology

Small-scale manufacturing plant is exhibited and used in a special laboratory. The plant includes a boiler yielding high-pressure steam, connected in series with a steam-heated funnel, tilting pan and a Bennett & Shears adaptable still for extraction, fractionation and vacuum operations. Other equipment is a filter press, centrifuge, mechanical mortar, electrically-heated oven, disintegrator, Hurrell homogeniser, various types of percolators, and tincture presses.

Materia Medica Museum

Part of the training in pharmacognosy is given in the museum of materia medica which houses, in addition to the drugs listed in the syllabus, many rare drugs, including a collection of Malayan drugs given by a former member of the staff, Mr. A. H. Millard, Ph.C.; this collection is probably unique of its kind. Four sets of drawers on the side walls are fitted with covers that let down into tables at which students can study the specimens in detail with lens or microscope. The rarer drugs are in museum cases at the ends of the room; and several additional cases of special drugs have been contributed by wholesale firms. An exhibit of unusual interest is an old-fashioned pill machine—forerunner of the type used today.

Physiology, Chemistry and Physics

Instruction in physiology and zoology, and the remainder of the classes in pharmacognosy, are given in a specially-designed laboratory that incorporates a number of distinctive features. The bench stools, for example, were adjusted for height after many trials by students, and continued use has confirmed that they cause a minimum of fatigue. Each student is provided with a triple-nosepiece microscope a accessories, and staining reagent blo A complete set of physiological apparat and models, ultra-violet lamp for analys and colorimetric and tintometric apparat are provided. As the benches present broad, flat area without rising fixtures, occasion a large instrument or specimen c be put right across them for use by a gro of students simultaneously. Special constructed microscope lampholders ha been used which concentrate and direct t beam so that a lower-powered lamp can used more effectively and more economica as illuminant than is customary.

The chemical laboratory is roomy a well equipped and, with its top lighti pleasant to work in. A smaller laborat attached is arranged for electromet titrations, *p*H values, conductiometric a combustion processes, etc. The phys laboratory is no whit behind in equipm and spaciousness, and in the bota laboratory the equipment for each stud includes double-nose microscope, stain a reagent block, and apparatus for study physiological processes.

College Amenities

The amenities of the College are, course, open to pharmacy students; t include common rooms and a handso "great hall." A gold medal presented Ferris & Co., Ltd., Bristol, silver and bro medals presented by the Bristol Branch the Pharmaceutical Society, and a Co prize presented annually by the Pharm ceutical Society are awarded to stude on the results of work at the College. U war broke out eighty students annua were being trained for the Intermediate a Chemist and Druggist Qualifying exami tions. Subsequently the number has, elsewhere, been rather less, but there every reason to look forward hopefully the post-war period. A link between College and the old "Bath and West" maintained through the social activi of the students' union as well as thro their magazine, "Pharmimag."

Staff

Classes in general and forensic pharma and pharmacognosy are conducted by Head of Department. The other lectur are: Pharmaceutics, Mr. W. Cooper, Ph. pharmaceutical chemistry, Mr. G. H. Mo Ph.C., A.I.C.; botany, Miss E. E. M. B B.Sc.; chemistry and physics, Mr. H. Willavoys, M.Sc., A.I.C.; zoology a physiology, Mr. H. Gorvett, Ph.D.

PHARMACEUTICAL EDUCATION IN THE U.S.S.R.

By H. Price, Ph.C.

ow much are you paid to study in your ntry?" This is a question asked of ting students, by students in the .S.R. Unique in its educational facilities, Soviet Union, by article 121 of its stitution, lays down the concept that education is free. Recently, some modition of this principle has been made, in t a small charge is made for higher cation. This, however, is nullified in e degree by the fact that, to all students attain a certain standard, scholarships given, sufficient to maintain them lst studying.

nce regarded as the most illiterate of ions, the U.S.S.R. has done much in the twenty-five years to remove this stigma. longer is education the prerogative of wealthy or the noble, for some 12 per t. of the national budget is expended on king sure that all are schooled up to lve years of age and that education ond that stage is accessible to all.

rmacy in Russia

Medical and pharmaceutical education ws some degree of continuity from the order to the new. The first pharmacy Russia was established in the Old Kremlin erve the Court, by James Frensham, an glish apothecary, in 1581. Drugs were, the main, imported from Amsterdam, so continued until the revolution, ept that some few foreign firms had blished manufactories. To supervise the lity of drugs—for adulteration was rife hat period—the Board of Pharmacy was blished in 1620, to develop later into Medical Collegium, concerned with the mination and licensing of physicians. s was the direct precursor of the Peoples' mmissariat of Public Health.

he first hospital and training school for sicians was built by Feodor III, grand- of the first Romanoff Tsar. However, ir education had to be finished abroad, ally at Padua; so great did the need for led men become that Peter the Great ught about the introduction of many eign doctors and pharmacists. He ointed a Scot to be first Director of the armaceutic Chancellery, as the old rd had become known. The first real dical faculty was established in the nine-year old University of Moscow in 1764, and the first Russian M.D. conferred four years later.

Pharmaceutical Training

Precise regulations for the training of pharmacists were laid down in 1838 and these were adhered to until the Revolution. From a four-year High School course, intending pharmacists were allowed to enter on an apprenticeship of three years with an established pharmacist, and after that period to sit for the state examination for the diploma of assistant pharmacist (pharmacopœus auxiliarus). A further three years' experience was necessary prior to entering one of the pharmaceutical institutes for the two-year course, leading to the examination for the diploma of provizor, or dispensing pharmacist (ph. substitutus). From this stage the degree of Master of Pharmacy, was obtained by passing a further examination, and presenting a dissertation. Under the new *régime* the apprenticeship system was discontinued, and pharmacies have become state institutions, the pharmacists civil servants, like other medical workers.

Educational System Extended

The entire educational system was revolutionised under successive Five-Year Plans. Where there were only ninety-one schools of university standard, there are now 716 universities and institutions of higher learning, and some 2,572 technical schools. Universities are not all of the same type—the thirty principal ones having several faculties, while the higher educational institutes (V.U.Z.) give education of university standard in one faculty only. The industrial academies give specialised training to workers from industry. All courses include economics, the history of the Party, philosophy and one foreign language. Russian students show a marked predilection for English, and visiting teachers have found them to have a most profound knowledge of English and English literature.

No examination comparable to the English matriculation is held, but intending students of pharmacy, admitted between the ages of seventeen and thirty, are expected to have graduated from a seven-year

high school course before entering one of the twenty-nine pharmaceutical technicums for the three-year course. Graduates rank as middle class medical personnel, and serve as assistants in city or hospital pharmacies or in rural medical stations.

Higher Qualifications

For the training of higher pharmaceutical personnel corresponding roughly to the English Ph.C. or B.Pharm., there are attached to Medical Institute of Leningrad, Tiflis and Perm, pharmaceutical institutes for admission to which the prerequisite is graduation from a ten-year high school course, or from a pharmaceutical technicum. The curriculum is very comprehensive, including general biology, microbiology, human anatomy and physiology, mathematics, chemistry including mineralogy and crystallography, physics, pharmacology and pharmacy (including history), hygiene and chemical defence, as well as specialist subjects. Pharmacists, legal chemists, leaders for the industry, and teachers are trained here, although other specialised institutes, such as the Higher Chemical Technology Institute of Moscow, also train technicians for the pharmaceutical industry, paying special attention to the practical side. This particular institute is attached to the works of the Moscow Medical Pharmaceutic Combine. Graduates of these higher seats of learning rank as higher medical personnel, the "Generals of the Health Army," as they are called.

Research

Brilliant students can become "aspirants" or research fellows, and are attached to some research institute for three years at a salary of 300–400 roubles per month. From this type of post, the aspirant proceeds to a permanent research post or to an academic one.

Students as a whole are aided in many ways. "University towns" provide for all the students' personal wants, from living to libraries and laundries. Each university has a rest home and sanatorium, with a medical staff. Unknown in this country, but common in Russia, are the crêches attached to the universities, for here marriage is no bar to a career. Indeed, in many cases husband and wife pursue their studies together. An extra year of study is allowed where the student becomes a mother, and the crêche looks after the child during the day, and in the evening the family returns to the married quarters of the university hostel.

Unions

Students' trade unions, which have a considerable say in the governing of the university, provide family allowances. Finding a post presents no difficulty, for with the rapid expansion of industry, the demand for skilled personnel is greater than the supply. Youth is no bar to progress or to academic distinction; the professor of mathematics at Moscow is thirty-two, of geography, twenty-eight, and of history thirty-two; there are too no barriers of race, colour or creed. The method of study does not follow the usual method adopted in English universities, but is similar to that of the older Universities of Oxford and Cambridge, i.e. combines the lecture system with the tutorial.

Remuneration of Pharmacists

Payment of pharmacists is on a fairly liberal scale. The following figures are taken from Henry E. Sigerist's "Socialised Medicine in the Soviet Union" (Gollancz)

Grade of Pharmacist	With professional experience of		
	Less than 5 years	More than 5 years	More than 10 years or having academic degree
Pharmacists with university education			
(1) In charge of a pharmacy.. ..	300	350	400
(2) Prescription clerk and controller	225	250	300
Pharmacists graduated from middle pharmaceutical schools			
(3) In charge of a pharmacy			
(a) in city or industrial settlement	225	250	275
(b) in rural localities	200	225	250
(4) Prescription clerk and controller			
(a) in city or industrial settlement	180	200	225
(b) in rural localities	160	180	200
(5) Pharmacy assistant			
(a) in city or industrial settlement	150	170	200
(b) in rural localities	135	150	180

All salaries are in roubles per month, the approximate value of a rouble being 2s. 2d

TRADE REPORT

ot quotations for pharmaceutical chemicals, crude drugs and essential oils represent e prices for wholesale quantities of standard quality. C.i.f. quotations do not include arine war risk insurance and other abnormal charges payable in the present emergency

28 Essex Street, W.C.2, August 12

HE general tone in most of the markets ntinues steady. Extremely few changes prices, either in or against buyers' favour, e recorded, and business as a whole shows tle or no improvement on the dull tone ported last week. There is small doubt, owever, that a good deal more business ould be passing if stocks of many products ere anything like normal. In consequence the present position of spot supplies of nported goods and the difficulties and lay in bringing forward new consignents, holders are conserving their stocks nd in most instances selling to approved nd old customers only.

There is still a good deal of discussion in incing Lane and the surrounding district out the questionnaire issued by the irectorate of Medical Supplies, calling for return of stocks of drugs and medicinal oducts generally. It seems that some of e firms who have received this questionire are hesitating to complete and return until they are assured that both firms in e recognised trade and others outside it ho are stock holders will be taking the me action. There seems to be an idea in me quarters that if the return asked for complied with they may later find that rt at least of their stocks will be comandeered, while other firms who had not vulged their holdings would retain their ods. This idea is, we believe, quite roneous. If the position arose that made necessary for the authorities to comandeer stocks, there is no doubt whatever at the goods in question in all hands would ve to be handed over. An Order would issued making it compulsory for all ms to tender their stocks to the authories.

According to the few reports to hand is week, there is no change of importance values of PHARMACEUTICAL CHEMICALS, hile a steady consuming business continues. the CRUDE DRUGS section there is little interest at the moment, with the markets cidedly flat and values generally well aintained. One or two small lots of Cape LOES are indicated at slightly lower figures an had been previously recorded. We ve failed to trace any bulk supplies of ERRIS ROOT on the market. Some irregularity is noted in both spot and forward prices for ERGOT, but the varying quotations tend rather upwards than otherwise. There has been slightly more interest in GUM ACACIA, and it is reported that import licences have recently been granted a little more freely; there is a rumour on the market that a control of sales prices may be introduced, but we can obtain no official confirmation of this suggestion. If anything, spot values for Matto Grosso IPECACUANHA are on a slightly higher level. It seems that a good deal of the limited stocks of MENTHOL is held in outside hands. Rather better supplies of SENEGA are noted this week. While business in the better grades of TRAGACANTH continues modest, holders of these qualities appear to have no idea of forcing sales. Business in ESSENTIAL OILS remains particularly quiet, and there is little or nothing of interest moving in these markets. Business, of course, is restricted to the very modest supplies of oil available, and in many instances quotations vary according to the quality of the product offered.

Exchange Rates on London

There have been no changes in the principal rates of exchange during the week. The rates include: BANK OF ENGLAND (fixed): New York, 4·03 dollars; Montreal, 4·45 dollars; Netherlands West Indies, 7·60 florins; Zurich, 17·35 francs; Stockholm, 16·90 kroner; Buenos Aires, 17·02 paper pesos; Lisbon, 100 escudos. FREE: Chinese national dollar, $3\frac{1}{32}$d.; Madrid, 46·55 pesetas (officially 40·50 pesetas).

Pharmaceutical Chemicals

ACETANILIDE.—Prices unchanged at recent small advance: B.P.C. crystals, 2s. 5d. per lb.; powder, 2s. 6d. per lb.

ALLOBARBITONE.—Makers' quotation continues at about 60s. per lb.

AMPHETAMINE.—Makers prices remain steady at approximately 160s. per lb.

ASPIRIN TABLETS.—Makers' prices steady at recent advance of $1\frac{1}{2}$d. per 1,000, as follows: Under 5,000, 3s. 5d.; 5,000, 3s. 3d.; 10,000, 3s. 2d.; 25,000, 3s.; 50,000, 2s. 11d.; 100,000, 2s. 10d.; 250,000, 2s. $9\frac{1}{2}$d.; 500,000, 2s. 9d.; 1,000,000, 2s. 8d.; 2,000,000, 2s. 7d.

BENZOIC ACID.—Limited supplies are available for medical purposes at about 2s. 6d. to 3s. per lb., according to quantity.

BENZYL BENZOATE.—Reserved for medicinal use; price would be about 4s. 6d. to 5s. per lb.

BORAX.—Makers quote as follows: B.P., granulated, £39 10s. per ton; crystal, £40 10s.; and powder, £41; packed in one-cwt. bags, delivered carriage paid in Great Britain, in one-ton lots and upwards. Commercial grades, £8 per ton less.

BORIC ACID.—Makers' prices are as follows: B.P., granulated, £60 15s.; crystal, £61 15s.; and powder, £62 15s.; packed in one-cwt. bags, delivered carriage paid in Great Britain in one-ton lots and upwards. Commercial grades, £8 per ton less.

BROMIDES.—Makers' prices for POTASSIUM are steady at the following figures:—

Quantity	In parcels of				
	1 lb.	4 lb.	7 lb.	14 lb.	28 lb.
	s. d.	s. d.	s. d.	s. d.	s. d.
From 1 lb. ..	3 11	—	—	—	—
From 4 lb. ..	3 10	3 8¼	—	—	—
From 7 lb. ..	3 9	3 7¼	3 6¾	—	—
From 14 lb.	3 8	3 6¼	3 5¾	3 5½	—
From 28 lb.	3 7	3 5¼	3 4¾	3 4½	3 4
1 cwt. ..	3 0¼	2 10¾	2 10¼	2 10	2 9½
5 cwt. ..	2 11½	2 9¾	2 9¼	2 9	2 8½

SODIUM, 1d. per lb. extra; AMMONIUM, 3d. per lb. extra; packing extra but returnable. Net. Carriage paid in United Kingdom on minimum one-cwt. lots. Contracts over six months: each delivery against contract to be charged at schedule rates current on day of dispatch. War-emergency clause and usual re-sale terms apply.

CODEINE.—Makers' prices per oz. for 4-oz. lots: ALKALOID, 38s. 3d.; PHOSPHATE, 31s. 3d.

ETHERS (METHYLATED).—The following are makers' prices:—

Specific gravity and grade	Winchester quarts, per lb.	Not less than 6 w. qts., per lb.	Not less than 12 w. qts., per lb.	Drums and carboys, per lb.
	s. d.	s. d.	s. d.	s. d.
0·750	1 5¼	1 4¾	1 4¼	1 3¼
0·735	1 5¾	1 5¼	1 4¾	1 3¾
0·730	1 5¾	1 5¼	1 4¾	1 3¾
0·725	1 7¾	1 7¼	1 6¾	1 5¾
0·725 triply rectified	2 0¼	1 11¾	1 11¼	1 10¼
0·720	1 8¾	1 8¼	1 7¾	1 6¾
0·717	2 2¾	2 2¼	2 1¾	2 0¾
0·720 B.P., not for anæsthesia	1 10	1 9½	1 9	1 8

Net prices, usual terms. Special prices for quantities and contracts, subject to rise-and-fall clause. Prices for anæsthetic ethers unchanged.

GALLIC ACID.—Limited quantities at full values: 7s. to 7s. 3d. per lb.

GLYCERIN.—The following are the prices for small supplies: 1-cwt. drum, 86s. per cwt.; 56-lb. tin, 94s.; 28-lb. tin, 97s.; 14-lb. tin, 100s. per cwt. Subject discount 2½ per cent. twenty-eight days.

GUAIACOLS.—Continue in short supply: CARBONATE and CRYSTALS would be wort about 13s. per lb.

HEXAMINE.—Current makers' price of fre running crystals, in cwt. lots, would be in th region of 2s. 3d. per lb.; fine crystals, a fe pence less.

PHENOLPHTHALEIN.—Makers' prices are a follows: Less than 7 lb., 4s. 3d. per lb.; 7 lb 4s. 2d.; 14 lb., 4s. 1d.; 28 lb., 4s.; 1 cwt 3s. 11d.

SANTONIN.—Home trade prices are withou change: 15 kilos and over, £46 10s.; not le than 10 kilos, £47 5s.; not less than 5 kilo £48 5s.; less than 5 kilos, £50 per kilo, delivere free in the United Kingdom; 1-kilo packag free.

SODIUM SALICYLATE.—Makers' prices stead at recent advance of 1½d. per lb.:—

Quantity	In containers of				
	1 lb.	4 lb.	7 lb.	14 lb.	28 lb
	s. d.	s. d.	s. d.	s. d.	s.
Under 4 lb.	3 3	—	—	—	—
From 4 lb. ..	3 2	3 0¼	—	—	—
From 7 lb. ..	3 1	2 11¼	2 10¾	—	—
From 14 lb.	3 0	2 10¼	2 9¾	2 9½	—
From 28 lb.	2 11	2 9¼	2 8¾	2 8½	2 8
From 1 cwt.	2 6	2 4¼	2 3¾	2 3½*	2 3
From 5 cwt.	2 5½	2 3¾	2 3¼	2 3*	2 2
1 ton	2 5	2 3¼	2 2¾	2 2½*	2 2

* 8 × 14 lb. and upwards, in one delivery, ½d. per l less. Prices include parcels or collapsible cartons; oth packages charged extra. Prices subject to buyer's unde taking not to re-sell any quantities at prices or ter below scale current at time of re-sale.

TANNIC ACID.—Firm at about 7s. 6d. to 8 per lb., with supplies restricted.

Crude Drugs

AGAR.—Stocks very small, market quie parcels of Kobe No. 1 noted, at about 62s. 6 to 65s. per lb. Medicinal and bacteriologic grades are difficult to locate, and values a nominal at 46s. and 27s. per lb., respectively.

ALOES.—Cape is now quoted in some quarte on spot down to 62s. 6d. per cwt., ex stor Shipment offers of Curaçao continue in th region of 390s. to 450s. per cwt., c.i.f., as t seller and quality. Some goods afloat at th same figures.

BALSAMS.—Very quiet and quoted unchange *Tolu* would be in the region of 9s. 6d. per lb *Canada*, about 8s. 6d. per lb.; *Peru*, 7s. 9 per lb.; spot stocks of *Copaiba*, B.P., a exhausted.

BELLADONNA.—Limited supplies, for whic inquiry is small, quoted at about 4s. 9d. t 5s. per lb.

BENZOIN.—Free almondy continues to b offered in small lots and valued at about £3 per cwt., ex store. Ordinary material is movin quietly at about £15 to £17 per cwt., ex store.

CALUMBA ROOT.—Any remaining small sup plies of good washed root would fetch abou 190s. per cwt.

AMPHOR.—Due to lack of normal supplies, iness is of little account: Chinese, B.P., . 6d. per lb.; crude (92 per cent.), 10s. per Japanese slabs, about 11s. 6d. per lb. Some glish synthetic camphor is passing to ap- ved buyers.

ARDAMOMS.—Remains distinctly quiet. ppy greens, spot, about 5s. 6d. to 5s. 9d. lb.; shipment, 5s. 1d., c.i.f. Aleppy seed, t, about 5s. 9d.; shipment, 5s. 3d., c.i.f. t seed, spot, about 4s. 9d.

ASCARA SAGRADA.—A limited business at dy values. Material imported under the se-Lend arrangement is 150s. per cwt., tore.

HILLIES.—London prices are lower on the k as follows: Spot, Zanzibar, 150s.; Mom- a, 150s., Sierra Leone, 150s. per cwt., ex e.

LOVES.—Market remains dull: Spot, Zan- r, 1s. 7d., sellers; Madagascar, not quoted. ment, Zanzibar, 1s. 3d. per lb., c.i.f., for nd quality.

OCONUT (DESICCATED).—Under Ministry of d Order the price is steady at 49s. per cwt., tore.

OLCHICUM.—Indian corms would be in the on of 2s. 9d. to 3s. per lb.

ANDELION ROOT.—Continues very slack. t, around 140s. per cwt.

ERRIS ROOT.—No trace of any bulk stocks he market.

IGITALIS LEAVES.—Shipment price of Portu- e remains at about 115s. per cwt., c.i.f.; , 135s.

RAGON'S BLOOD.—Re-boiled is fully main- ed as quoted; supplies modest. Spot price ominal at £42 per cwt.

RGOT.—Market is quoted at varying prices, spot and forward, and holders are not ng at the recent slightly lower ideas of es. Spot, offers range from 5s. 9d. to d., ex store; shipment offers this week are 6s. 4½d. to 7s. per lb., c.i.f.

INGER.—Maximum prices have not yet been l by the Ministry of Food, and quotations ominal. West African, spot, 185s. per cwt.; in, unwashed, spot, about 182s. 6d.; nd, 225s.; Jamaica No. 3, spot, 230s.

UM ACACIA.—While prices have shown no ation, business has been of limited account. ort licences have been granted fairly freely y. Kordofan cleaned sorts, spot, 165s. for icted and about 230s. for uncontrolled. ment, 72s. 6d. per cwt., c.i.f., nominal. ours of a control of this product are on the ket.

ONEY.—Price schedules for first-hand and esale transactions were given in the *C. & D.*, 9, p. 527.

YDRASTIS.—Users of supplies imported r the Lease-Lend arrangement are required y 22s. 6d. per lb., ex store, with an addi- l small charge for repacking.

IPECACUANHA.—The market is steadier at rather better values. Matto Grosso, spot, 17s. 9d. to 18s. per lb., ex store; shipment, 16s. 3d. per lb., c.i.f. Minas, spot, B.P., about 12s. 6d.; not quite B.P., 11s. 9d. to 12s. per lb. Current prices for EXT. IPECAC. LIQ., in winchester quarts, are: B.P., 1932, under three, 26s. per lb.; three and under six, 25s. 6d.; six and under twelve, 25s.; twelve and over, 24s. 6d. per lb. B.P., 1914, under three, 24s. per lb.; three and under six, 23s. 6d.; six and under twelve, 23s.; twelve and over, 22s. 6d. per lb., all prices net.

JABORANDI.—Market is slack. Spot, about 67s. 6d. per cwt. for single bales.

JALAP.—Brazilian (16·5 per cent.), spot, from 105s. to 110s. per cwt., according to quantity.

KAMALA.—Spot is unchanged at 2s. 3d. per lb.

LEPTANDRA ROOT.—Lease-Lend supplies are being distributed at the fixed price of 1s. 10d. per lb., ex store.

LOBELIA HERB.—The price to users of Lease-Lend material is 2s. 8d. per lb., ex store.

MENTHOL.—Continues dull, with some stocks in outside hands. Chinese, 72s. 6d. to 75s. per lb. Japanese, nominal at 75s. per lb. English synthetic B.P. is in very small supply.

MERCURY.—As recently noted, official prices range from £68 10s. to £69 15s. for quantities over 7 lb.

MYRRH.—Aden sorts, spot, £16 per cwt.

NUTMEGS.—West Indian sound unassorted, spot, 2s. per lb.; wormy and broken, 1s. 10d.; 80's, 2s. 6d.; Eastern browns, 80's, 2s. 9d.

ORANGE PEEL.—3s. 3d. per lb. for thin-cut and quarters.

PAPAIN.—Nominal at 17s. per lb.

PEPPERS.—The maximum price of unpicked whole black Lampong, as fixed by the Ministry of Food, is 5d. per lb. in bond; white Muntok, in a similar condition, is 8d. per lb.

PIMENTO.—Steady with business quiet; Spot, 2s. 2½d. per lb. sellers. Shipment, August–September, 140s. per cwt., c.i.f., nominal.

PSYLLIUM SEED.—Indian, spot, about 1s. 3d. per lb., ex store.

RHUBARB.—Continues steady, business of small account. Rough-round, 7s. 6d. to 7s. 9d. per lb.; slightly wormy, 7s. 3d. Shensi spot, 9s. 6d. to 10s. per lb.

SARSAPARILLA.—Native reddish continues to be offered by dealers at around 2s. 9d. to 3s. per lb., according to quantity. Business has been fair.

SENEGA.—A little more material appears to be offering at steady prices: 7s. 6d. per lb., ex store.

SENNA.—In Tinnevelly pods there is some good hand-picked at about 1s. 3d. to 1s. 4½d. per lb.; ordinary, about 1s. 1d. to 1s. 2d. f.a.q., 9d. to 10d. per lb., ex store. Fair to medium Alexandrian pods are worth about 3s. 9d. to 4s. per lb., and broken leaves are valued at 1s. 3d. to 1s. 4d. per lb.

SHELLAC.—Business remains slow: Standard TN orange, spot, 200s. per cwt., value; shipment, unquoted. Pure button, unquoted on spot; fine orange, 240s. to 290s. quoted.

SLIPPERY ELM BARK.—Lease-Lend material is being distributed to users at 1s. 6d. per lb.; ex store. Outside supplies are difficult to find.

STRAMONIUM LEAVES.—Indian leaves quoted at about 105s. per cwt.

STROPHANTHUS SEED.—Spot, 100 per cent. Kombé, about 10s. per lb.

TRAGACANTH.—Not much activity is to be noted but sellers are not forcing business. No. 1, white, £137; No. 2, white, £120; No. 3, white, £105; No. 4, white, £90; pale leaf, £85; amber leaf, £70; red and brown leaf, £47; red leaf, from £42; woody and hoggy, from £18, ex store.

WAXES.—Market remains dull. BEES'.—Unquoted. CARNAUBA.—Fatty grey, 510s.; chalky grey, 500s.; Primeira, 585s. per cwt.

WILD CHERRY BARK.—Stocks imported under the Lease-Lend arrangement are being distributed to users at 9d. per lb., ex store, repacking extra.

WITCH HAZEL LEAVES.—Spot supplies offered by dealers at from 1s. to 1s. 3d. per lb., according to quantity.

WITCH HAZEL (LIQUID EXTRACT).—Users of material imported under the Lease-Lend arrangement are quoted 10s. 6d. per gall., ex store.

Essential and Expressed Oils

ANISE (STAR).—Any genuine Red Ship oil in drums is valued at 53s. per lb. and tins in cases at 54s. per lb. nominal.

BAY.—Spot is quoted on a dull market at about 12s. to 13s. 6d. per lb., according to quantity.

BERGAMOT.—Market, so far as genuine oil is concerned, is nominal at about 100s. per lb. Substitutes are at lower and varying prices.

BOIS DE ROSE.—Steady at about 35s. per lb.

CAJUPUT.—In small supply and held for 15s. to 16s. per lb., according to quantity.

CAMPHOR (WHITE).—There seem to be odd drums about for which are quoted prices ranging from 500s. and 550s. per cwt., duty paid.

CANANGA.—Genuine oil is difficult to locate in any quantity. Spot, from about 70s. to 80s. per lb.

CASSIA.—Market is very sparsely supplied; good-quality material would be from 60s. to 70s. per lb.

CEDARWOOD.—Spot price is nominal at 6s. 6d. per lb.

CINNAMON LEAF.—Quoted steadily on a quiet market at about 14s. 6d. to 15s. per lb., according to quantity.

CLOVE.—English distillers are quoting from 15s. to 16s. 6d. per lb.; reasonable supplies are stated to be available.

EUCALYPTUS.—A fair demand with hold conserving supplies. Prices are firm at fr 5s. 9d. to 6s. per lb. for 70 to 75 per cent.

FENNEL.—Sweet, on spot, may be had from about 30s. per lb.

GERANIUM.—Values are nominal with quo tions varying as to quality. Very little straig oil about.

GINGERGRASS.—Spot price unchanged about 27s. 6d. per lb.

GROUNDNUT.—Official price of refined odorised, £44 10s. per ton, naked ex works.

LAVENDER.—About 85s. per lb. would rep sent the present spot price of good-quality Lower grades and substitutes at cheaper pric

LINSEED.—Official quotation for crude recently increased to £46 10s. per ton, nak ex works.

PALMAROSA.—Shipment price is about 3 per lb., c.i.f.; spot, about 37s. 6d.

PATCHOULI.—Continues nominal on spot 70s. per lb.

PENNYROYAL.—Supplies are limited; sp from 30s. to 35s. per lb.

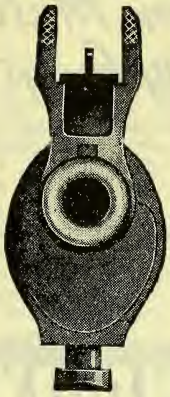
PEPPERMINT.—Stocks show no improveme values steady. Any Chinese would be valu at about 82s. 6d. to 85s. per lb., ex store.

PINE.—Siberian, spot, about 14s. per lb.

PREMIER JUS.—The Ministry of Food announced an increase in the price to wh salers and large trade users to £51 15s. per t c.i.f., in barrels of tierces, duty paid.

SANDALWOOD.—Genuine East Indian Mys about 32s. 6d. per lb. for delivery in one-c lots. Australian, in the region of 28s. 6d.

Synthetics and Isolates.—Supplies conti very limited and in some cases they are available for non-essential uses. Difficulty n be experienced in obtaining supplies for p fumery purposes. AMYL ACETATE.—Pu about 130s. per cwt.; technical, 109s. per cw small quantities, up to 2s. per lb. AMYL C NAMIC ALDEHYDE.—About 25s. per lb. AM SALICYLATE.—About 5s. per lb. BENZYL A TATE.—6s. per lb. BROMSTYROL.—100 per ce 22s. per lb. CINNAMIC ALDEHYDE.—Quoted about 7s. 6d. to 8s. per lb. CITRAL.—Chemica pure, 72s. 6d. per lb. CITRONELLAL.—Ab 40s. per lb. CITRONELLOL.—About 45s. per COUMARIN.—17s. 6d. per lb. ETHYL PHT LATE.—No quotations. EUCALYPTOL.—Ab 13s. per lb. EUGENOL.—About 26s. per GERANIOL.—Ex Java, about 60s. per GERANYL ACETATE.—About 65s. per lb. IONO —100 per cent., about 70s. per lb.; alp about 90s. per lb. ISOEUGENOL.—About 2 per lb. LINALOL (ex bois de rose).—About 6 LINALYL ACETATE (ex bois de rose).—Ab 65s. per lb. METHYL ANTHRANILATE.—Pri would be a matter for negotiation. MIRBANE 10d. to 1s. 3d. per lb., according to quanti MUSK KETONE, MUSK XYLOL, and MUSK BRETTE.—Prices would be a matter for nego tion. NEROLIN.—Prices would be a matter negotiation. TERPINEOL.—About 4s. to 4s.



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must be shown in the approach to problems both immediate, in connection with the country's stupendous effort, and in the future development of the Chemical Industry.

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(1) Our Staff is reduced 50%.
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Please bear with us if we do not succeed or the ration is meagre, for many are giving up their holiday and working overtime to get as many of our Chemists Friends supplied as is humanly possible.

By special order Barley Sugar with Halibut Liver Oil is now subject to the rationing scheme and coupons must be taken.

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PITUITARY EXTRACT (POSTERIOR LOBE)

Prepared and standardised in accordance with the provisions of the Therapeutic Substances Act. Used for the Induction of Labour; Uterine Inertia; Post Partum Hæmorrhage; Surgical Shock; Diabetes Insipidus.

An approved and long established preparation.

Ampoules: 5, 10 and 20 International Units per c.c.

Glandular Therapy Booklet and "OXOID" Price List on request.

OXO LIMITED, Thames House, London. E.C.4

OXO LABORATORY PREPARATIONS

In *South Africa* and *Rhodesia*

The Leading Chemists are

LENNONS

They have been established in all centres of any importance for many years and offer modern facilities for manufacturing as well as Wholesale and Retail Distribution throughout the territory.

★ *If you are seeking reputable representatives or desire information about the market write to:*

LENNON LIMITED
12-14 LAFONE STREET
LONDON, S.E.1
TELEPHONE · **HOP. 0181**

DIFFICULTIES O DIET in WAR TIM

have increased the demand for

PRUNOL PASTILLES

the pleasant and effective laxative

Supplies available promptly from all Wholesale houses.

Prunol sells at 7d. & 1/5 (including

PRUNOL PROPRIETARY LTD.
Sales Dept., Northington House
Northington St., London, W.C.1

Pruno
PASTILLES
THE IDEAL FRUIT LAXATIV

BIOLOGICAL MBL PREPARATIONS

HE QUALITY OF ALL MBL PRODUCTS IS ABSOLUTELY DENTICAL WITH THAT OF PRE-WAR PREPARATION

ecause of our heavy purchases immediately before war broke out. Our stocks re still considerable and the high MBL standard will be fully maintained.

HERE IS NO SHORTAGE OF ANY OF OUR PREPARATIONS

		Retail Price	CHEMISTS' PRICE Per unit			CHEMISTS' PRICE Per dozen		
		(Inclusive of Tax)	Net	+	Purchase Tax	Net	+	Purchase Tax
ANTIPEOL								
OINTMENT	4 oz. tube	6/8½	4/2½	+	8½	50/5	+	8/5
	40 gr. ,,	3/4½	2/1½	+	4½	25/3	+	4/3
	20 gr. ,,	1/10½	1/2	+	2½	14/–	+	2/4
LIQUID	40 c.c. bottle	3/4½	2/1½	+	4½	25/3	+	4/3
OPHTHALMO-ANTIPEOL								
20 gr. Nozzled tube		3/4½	2/1½	+	4½	25/3	+	4/3
RHINO-ANTIPEOL								
20 gr. Nozzled tube		2/9½	1/9	+	3½	21/–	+	3/6
ENTEROFAGOS (ORAL AND INJECTABLE)								
Box of 50 ampoules		19/–	13/3½		None	159/7		None
,, 10 ,,		4/3	3/–		None	35/8		None
,, 5 ,,		2/6	1/9		None	21/–		None
DETENSYL								
Tin of 500 tablets		39/–	24/–	+	4/–	288/–	+	48/–
Tube of 50 ,,		4/5½	2/8½	+	5½	32/4	+	5/5
ST. JAMES' BALM								
Tin of approx. 2½ ozs.		2/10	1/11	+	4	22/6	+	3/9
,, ,, 1 oz.		1/5	11	+	2	11/3	+	1/11
Tube		1/2	9	+	2	9/–	+	1/6

Carriage paid on all orders of 1 dozen or £1 and over.
Terms: NETT, monthly account.

EDICO-BIOLOGICAL LABORATORIES LTD., LONDON, S.E.25

PEAT PRODUCTS (SPHAGNOL) LTD.

3 CARMALT GARDENS, PUTNEY, S.W.15

MAKERS OF

SPHAGNOL MEDICAL SOAP & OINTMENT

FOR OVER 35 YEARS

AN EFFECTIVE TREATMENT FOR ALL SKIN COMPLAINTS

AS SUPPLIED TO THE BRITISH RED CROSS SOCIETY
(Prisoners of War Branch)

15%	MEDICAL SOAP	4/4 per box of 3 tablets
15%	,, ,, ...	1/5½ per tablet
5%	TOILET SOAP	2/6 per box of 3 tablets
5%	,, ,, ...	10d. per tablet
10%	OINTMENT (1-oz. size)	1/2 per tin
10%	,, (1½-oz. size)	1/8 per tin

ORDER through your usual Wholesaler on Bonus terms. See P.A.T.A. List.

SAMONA

-makes life worth living

The Wonderful Medical Restorative which brings Immediate benefit in all cases of

**NERVE STRAIN. DEPRESSION.
TIRED AND LISTLESS APPEARANCE
MENTAL AND PHYSICAL EXHAUSTION**

Prices 3/5 and 5/7½ (more than double quantity) (*Including Purchase Tax*)

SAMONA LTD.
Northington House, Northington Street, W.C.1

NO SHORTAGE OF SUPPLIES

GOOD PROFITS FOR THE CHEMIST

SUPPLIES NOW AVAILABLE FROM STOCK

PRI

GLAND TONIC TREATMENT

Orders for P.R.I. Gland Tonic Treatment can now be accepted for immediate delivery either through your usual wholesaler, or direct. 3/9 retail, 2/6 wholesale, both prices inclusive of Purchase Tax.

THE PHARMACEUTICAL RESEARCH INSTITUTE, LTD.
72 Finsbury Pavement, London, E.C.2 KELvin 3301

There will always be an insistent demand for SHERLEY'S

DOG PREPARATIONS

Despite the abnormal conditions prevailing, there will always be an insistent demand for Sherley's Dog Preparations as they are recognised by Owners everywhere as the True Standard of Excellence. It would therefore be wise to stock your shelves to capacity so as not to run the risk of disappointing regular customers. We, on our part, will continue to support retailers to the utmost, and maintain the fullest supplies possible.

PURCHASE TAX. The following ruling from H.M. Customs & Excise has effect from June 4th, 1942:—

SHERLEY'S COATACINE—TAX 66⅔%
SHERLEY'S DRY CLEANER BLOCK AND POWDER —TAX 33⅓%

NEW RETAIL PRICES

COATACINE .. .. .. 2/3d.
DRY CLEANER PREPARATIONS 7½d.
NOFOL .. .. 1/9d. (TAX FREE)

FREE DISPLAY MATERIAL. Bold, attractive Display Cards for counter and window are supplied to all Sherley stockists, free and post free.

DISCOUNT TERMS

A discount of 10% on minimum £2 parcels will be in future deducted from invoice, rendering the invoice nett 30 days. Orders value £1 and over carriage paid.

Owing to the difficulty in arranging travellers' regular calls, journey accounts are discontinued. Accounts are payable 30 days nett.

A. F. SHERLEY & CO. LTD., Boston Manor Road, Brentford, Middlesex

ESTABLISHED 1793

ATKINSON & BARKER'S INFANTS' PRESERVATIVE

The Best and Safest Infants' Medicine of 140 years' standing

Does not contain any Scheduled Poison

ROBERT BARKER & SON, LTD.
3 WESLEY ST., C. on M., MANCHESTER

LIEBIG'S HERBAL TONIC WINE
(Non-alcoholic)

In order to comply with the Pharmacy and Medicines Act, 1941, every bottle must bear the following Formula Label:

"This preparation contains the following active ingredients:

Ext. Gentian, Chiretta, Dandelion and Sarsaparilla in equal parts .. 1·2%
Ext. Irisine .. .. 1·0%
Ext. Malt and Dextrin Maltose .. 12·5%"

These Labels are available on request, free of charge.
New Stocks are of course correctly labelled.

Write for trade terms to—

THE LIEBIG MALT WINE COMPANY
5 Somers Street, Park Lane, Leeds, 1
(Phone: LEEDS 24827)

Sulis is a British Natural Mineral Water comparable both in mineral content and palate appeal to the German and French waters which are now practically unobtainable.

This water is taken direct from the Springs at Bath, Britain's Premier Spa, and sold in still or aerated form.

SULIS

THE BRITISH MINERAL WATER

Prices, discount and full particulars from:
CATER, STOFFELL & FORTT, LTD., The Springs, BATH

What unusual opportunities the pharmacist has for studying human nature A continuous stream of customers reveal themselves to his keen perception by thei purchases, their half-confidences, their hopes and fears . . . .

There's **THE MAN WITH A PAIN** — generally in his stomach. He wa relief from it and that is something you can quickly give him. But does realise that a cup of Benger's last thing at night for a fortnight would go a lo way to removing the cause of his trouble — an over-strained digestio Possibly not, but more and more people (and normal, healthy folk as well) being influenced by the sound sense of Benger advertisements which appear practically every important magazine and newspaper in the country.

. . . but you can invariably sell them —— BENGER'S

90% of your customers need Benger' and are being educated to ask for it

BENGER'S LTD. HOLMES CHAPEL. CHESHIRE.

[47/25]

The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28, ESSEX STREET, LONDON, W.C.2

AUGUST 15 1942

vertisements in this supplement must be prepaid and should reach us not later than WEDNESDAY week of issue. Box Office numbers cost 1/-. Late advertisements will be held over to following week.

HEMISTS! Increase your profits and enhance ur reputation by making your own Cosmetics. ote: Face-powder and Talcum are freed from ota restrictions.

e can supply the raw materials, including ential Oils, Colours, Packing and Instructions the manufacture of the following:—

5 lb. Face-powder **20/6**, tax **13/8**
5 lb. Bath Talcum **12/6**, tax **8/4**
1 lb. Rouge-powder **20/6**, tax **13/8**

rms: Cash with Order or C.O.D. 1/- extra. Free Price List of Raw Materials on request.

ARMAN DIETETIC LABORATORIES LTD.
9 Cricklewood Broadway, London, N.W.2
Tel.: Gladstone 1084

OFFERED

per White French Chalk; Best White Talc; hite Fullers Earth; Zinc Oxide B.P. Finest; ster of Paris; Kaolin B.P.; Waxes—Sperceti, Beeswax, Yellow and Bleached and stitute, Ceresine, Paraffin, etc.; Cret. praecip. prep.; Irish Moss; Freeration Cleaner (for shing clothes); Gums Tragac., Karaya, etc.; emicals; Fatty Acids; Boric, Zinc, Sulphur. unce tins, (tax paid). Special quantity prices. ur wants solicited. Low quotations.

ENSHAW, M.P.S., WYKE REGIS
DORSET

1 oz. POMADE JARS. 36s. Gross
4 oz. POMADE JARS. 36s. Gross
All Complete with Screw Caps
lot Less than 5 Gross of a line Supplied
C.W.O. Carriage Paid
E. CHARLTON
ING STREET, FARNWORTH, LANCS.

RESTOLAN emulsifying base for preparing ite brilliantine cream, to cost not more 1/- r lb. Other ingredients are easily obtainable. per lb., postage paid (including formula and ructions for manufacture). Cash with order.

est Laboratories, Ltd., 443 Bury New Road, Salford, 7

SACCHARIN TABLETS
FULL STRENGTH, URGENTLY WANTED
vertiser is anxious to purchase large quantities bulk, and will take regular lots of value up to 000. Would consider purchasing tablet-making nt having good allocation of saccharin. Replies, B/1108, London Office of this Paper.

MARLENE PRODUCTS

are pleased to advise all old customers and new that they can now supply the following well-known and popular face powders:—

JANE GARDEN
16/6 per doz. + 66⅔% tax.
Retail 2/11 per 1 oz. box.

JEANNE ET CIE
30/- per doz. + 66⅔% tax.
Retail 5/2 per 2 oz. box.

These powders are available in seven shades:
Natural, Peach, Rachel, Rose Rachel, Deep Peach, Ochre and Sun Tan, and are packed in neat and attractive boxes.

Also Available.—½-lb. Containers for Talcum Powder. Smart design. 50/- per gross. Minimum order, 6 doz. Slumber Helmets, 72/- per gross + 33⅓% tax. All shades.

Cash with orders. Carriage paid
Delivery approximately 7-10 days

MARLENE PRODUCTS
18 WALTHAM AVENUE, KINGSBURY, LONDON. N.W.9

RAW MATERIALS OFFERED

Comp. Soap Powder. 28 lb. at 45/- (sufficient to make 1000 shampoos). Also 56 lb. at 80/- and 1 cwt. at £7 10/-. Modern duo-coloured Shampoo Pockets, 35/- per 1000; Kristal inner Bags at 12/6.

Bottles. Another large consignment 1¼ oz. smart Toilet Bottles with black korkalite screw caps just in. Packed in boxes of 25 doz. and complete with labels 'Brilliantine' (not affixed). Silver series design, per box, 72/-. All lines carriage paid.

If sample of a line required please send 6d. cover expenses.

BRILLOFIX POMADE COMPANY
52 Whitefield Road, Leagrave, Luton

CONCENTRATED LIQUID SULPHONATED LAURYL ALCOHOL, £3/10/0 gallon, can 2/6.
LIQUID STOCKING COLOURS (Beige, Tan and Gunmetal), 8/- lb. Envelopes for same, 4/- per 100.
HARMAN DIETETIC LABORATORIES, LTD.
109 Broadway, Cricklewood, N.W.2

SITUATIONS OPEN

7/6 for 40 words or less, 2d. for every additional word.

None of the advertisements below relates to a woman between 18 and 30 years inclusive unless such woman has living with her a child of her own under the age of 14; or is registered under the Blind Persons Acts; or has a Ministry of Labour permit to allow her to obtain employment by individual effort.

RETAIL (HOME)

ASSISTANT required, ineligible for military service, either sex, for good class suburban business. Dispensing and Counter. No Sunday or holiday duty. A. T. Gray, Ltd., 5 High Street, Barnes, S.W.13

CHEMIST required to manage Clyde Coast shop. Must be exempt. Good salary and conditions to suitable applicant. Very pleasant situation. CDB/1104, London Office of this Paper.

DARWEN Industrial Co-operative Society, Ltd. Wanted Superintendent Chemist and Optician (exempt from military service), Two Shops, Large Turnover, Permanent Position. Applications, stating age, experience, qualifications and salary required, to be sent to the undersigned not later than first post on Friday, August 21st. H. Hyde, J.P., Secretary, D.I.C.S., Ltd., School Street, Darwen.

DISPENSER wanted, either sex, Qualified or Unqualified. Must be a careful Dispenser and generally capable of good-class work. Martin, Chemist, Goring Road, West Worthing.

HARRODS, LTD., require in their Drug Department Unqualified Chemist Assistants for Counter (male or female). Apply personally to Staff Manager, 44 Hans Crescent, S.W.1, before 11 a.m.

ILFORD. Qualified Assistant (male or female) required immediately or soon as possible. No Sunday or half-day duty. Apply by letter stating age, experience, and salary required. 409/984. London Office of this Paper.

LONDON Co-operative Society, Ltd., invite applications from Qualified Pharmacists, male or female, for progressive positions in the London area. Apply. Pharmacy Manager, 54 Maryland Street, Stratford, London, E.15.

MANAGER required, locum or permanent, either sex; qualified. Apply with references to Cox, 23 Hampden Square, Southgate.

NORTH-WEST Reception Area. Experienced Qualified Manager required for busy high-class Pharmacy. Two assistants kept. Permanency for suitable applicant. Please give full details of experience, age, salary required, and when free in first letter. 410/110, London Office of this Paper.

PERMANENCY. Wanted, qualified Male Pharmacist, exempt from military service, to take charge of Branch. Apply, by letter, stating age, experience and salary required, to the Secretary, Colne and District Co-operative Society, Ltd., Colne Hall, Colne, Lancs.

PHARMACISTS required for the duration, must be exempt from military service. Congenial posts with short hours and no half day or Sunday duty. Send full particulars of age, height, experience and wages required to General Manager, Co-operative Society, Rugby.

QUALIFIED Chemist, male or female, required as Branch Manager. Exempt military service. No half-day or Sunday duty. Apply, stating age, wage and experience, to The Secretary, Co-operative Society, Ltd., Free School Lane, Lincoln.

QUALIFIED Chemist (male or female) to manage Branch Shop; good Dispenser. Male applicants must not be liable for military service. Apply stating age, wages, and particulars of experience, to General Manager, Brighouse District Industrial Society, Ltd., King Street, Brighouse.

QUALIFIED Chemist required, to manage End Pharmacy. Apply by letter. 410 London Office of this Paper.

ROYAL Arsenal Co-operative Society, Ltd., vacancies for qualified Managers and Assist (either sex). Progressive positions, good condi of employment, and no Sunday or holiday du Applications, stating full particulars of experi salary required and position under the Mil Service or National Employment Order Acts t addressed to the Staff Manager, Royal Ar Co-operative Society, Ltd., 113 Powis St Woolwich, London, S.E.18. Endorse env "Pharmacy."

TAYLORS BRITISH CHEMISTS will shortly vacancies for Qualified Managers and Assist male or female, in Birmingham and Midlands, L Houghton-le-Springs, Tamworth, Thorne, Black Oldham, Ashton-under-Lyne, Ramsbottom, E well, Accrington. Apply Retail Staff Dept., B Hill, Leeds, 4.

UNQUALIFIED Assistant, exempt military required immediately. Write Harold M Ltd., 98 High Street, Cheltenham.

UNQUALIFIED Assistants (either sex) req with or without Dispensing experience. wages, hours and conditions of employment. A in writing, stating full particulars of experience position under the Military Service or Nat Employment Acts to the Staff Manager, R Arsenal Co-operative Society, Ltd., 113 Powis St Woolwich, S.E.18. Endorse envelope "Pharma

VACANCIES for Managers—excellent br managements are now becoming vacan Cornwall, Devon, Isle of Wight, Portsmo Watford, Slough, Gravesend, Woking, etc. App tions are invited from capable pharmacists ex from military service. Good salaries and commis Timothy Whites and Taylors, Ltd., Retail Dept., 70 Vauxhall Bridge Road, London, S.W.

WANTED. Unqualified or Qualified Assis with Dispensing experience. Apply, F & Co., Ltd., 23 St. Stephen Street, Bristol.

WHOLESALE

A PROVINCIAL House of Manufacturing Cher require the services of a Traveller to call doctors, hospitals and chemists in the Midland Applicants should please state age, remunera required, and previous experience and employ to 410/114, London Office of this Paper.

A REPRESENTATIVE is required by the operative Wholesale Society, Ltd., to cal Drug Departments of Retail Co-operative Socie Not a war-time vacancy. Applicants must qualified and be fully conversant with the whol drug trade and preferably have had prev experience. Applications stating age, experie liability for military or national service, and sa required, to be addressed to the C.W.S., 1 1 Balloon Street, Manchester, 4, endorsed " Representative," to be received not later September 5, 1942.

EAST Lancs. Wholesale Chemists require a ca and active Assistant to take charge of Dept., distributing Wets and Drugs to Retail t CDB/1105, London Office of this Paper.

EXPERIENCED Stock-keeper required (mal female) able to supervise and take contr Stock Records. Preference given to appli possessing knowledge of Pharmaceutical Prod Write, stating age, experience and salary require 410/988, London Office of this Paper.

LABORATORY Worker required (exempt), lets, Ointments and General Work. Black Hayes & Co., Ltd., Wholesale Pharmacists, Moor Street, Birmingham, 4.

KER and Stockkeeper required in proprietary edicine business, W.C.1 district, 5-day week; be over military age. State experience and required. Box 577, Smiths', 100 Fleet Street, n, E.C.4.

LIFIED or unqualified Man wanted, exempt om military service, for Manufacturing business. nency. One with knowledge of buying pre- State age, experience and salary required. uld, Whitehouse, Ltd., Chemists and Drug rs, Reform Works, Wellington Road, Dudley.

LET Maker and Sugar Coater wanted by anufacturing Chemists, Midland district. stating age and experience and salary re- 410/112, London Office of this Paper.

NTED Galenical Process Workers and Assis- ants for heavy work in Steam Laboratory. Wright, Layman & Umney, Ltd., 66 Park S.E.1.

LL-KNOWN Company of Manufacturing and Distributing Chemists require a Representative uth Scotland. Previous experience necessary pplicants must reside on the territory. Age ll particulars should be given. Applications treated in confidence. 410/104, London Office Paper.

APPOINTMENTS

URREY COUNTY COUNCIL

otleys Park Colony, Chertsey (including nnexe—Murray House).—PHARMACIST Woman, one not liable to be conscripted r National Service) required at the above ental Deficiency Institution. Candidates ust possess the Pharmaceutical Society's ualifications. Salary £225 × £10—£275 r annum, plus a War Bonus, which at esent is 6s. 0d. per week. The successful ndidate will, for approximately the uration of the war, be required to carry t most of her duties in the Central Dis- nsary of the War Hospital and Colony mbined under the direction of the Chief harmacist. The appointment is subject to e Council's Staffing Regulations, and the rson appointed will be required to pass a edical examination. Apply to the Medical uperintendent, Botleys Park, Chertsey, urrey.

DUDLEY AUKLAND, *Clerk of the Council.*
ugust 5th, 1942.

LOCUM WANTED

UM, Qualified or Unqualified, August 31st to ctober 3rd. Central London. Apply "A," 1, London Office of this Paper.

SHOP FITTING

ERS OF OLD ST. THE PHARMACY FITTERS
HARMACY FITTINGS. New and Secondhand
—From the single unit—
to the complete Pharmacy
Write, Phone or call
ERS, 133-135 OLD ST., E.C.1. Phone: CLE 6381

WANTED

7/6 for 36 words or less, 2d. for every additional word.

ABRACOL G.M.S. and Lanette Wax wanted urgently in large or small quantities. Details and price to B. Salter & Son, 34 Castle Street, Shrewsbury.

ADVERTISER will Exchange 2 lb. Ol. Menth. Pip., 2 lb. Menthol Crystals, for Tooth Brushes (Nylon, Halex, etc.), also Dental Plate. 410/108, London Office of this Paper.

DUBLIN Wholesaler is open to purchase, with view to sole distribution, cosmetics and chemists' sundries. Sound financial references. 410/987, London Office of this Paper.

HIGH prices are offered for all types of high-class photographic instruments, Leicas, Contaxes, Rolleiflexes, etc. Also 16 mm. Talkies. B. Salter & Son, 34 Castle Street, Shrewsbury.

KODACHROME 8 mm. films, new or out of date. Kodak 8 mm. feature films also required. Any subject. Good prices paid. Offers to CDB/1109, London Office of this Paper.

RENNET, Concentrated Domestic, Glycerine base, wanted immediately for cash. Apply, Stephen & Son, Manufacturing Chemists, John Street, Aberdeen.

SACCHARIN Tablets Wanted, full strength, preferably in bulk. Cash waiting. Particulars to CDB/1107, London Office of this Paper.

SACCHARIN Tablets wanted. Full and half-strength. Large quantities purchased for cash or commission paid for genuine recommendation. G. H. Smith, 34 Greenfield Gardens, Hendon Way, London, N.W.2.

TOMLINSON'S Plaster Bandage in rolls. Originally stocked by Fitch, Ibbotson & Hemingway. Dr. Wilson, Breamore, Hampshire.

WANTED, Bakelite Caps, all sizes; also Perfumes, Medical Bottles and Glass Jars. 37 Lewisham Road, London, S.E.13.

WANTED by England's largest photographic dealers. All Miniature Cameras, extra lenses and accessories, Rolleiflex, Leica, Contax, Ikontas, etc.; also Microscopes and Cine Projectors. Highest prices guaranteed. Wallace Heaton, Ltd., 127 New Bond Street, W.1.

WANTED. Second-hand Rotary Tablet-making Machine. Write giving details, price, etc., to 410/117, London Office of this Paper.

WEIGHING and Filling Machine for Powder, small capacity, urgently required. Send details and price. 410/106, London Office of this Paper.

AGENCIES

7/6 for 36 words or less, 2d. for every additional word.

AGENT, with van and warehouse in Belfast, covering Northern Ireland and calling upon chemists, and general merchants, is open for additional good Agency. Would act as distributor, if required. 410/115, London Office of this Paper.

CHEMIST'S Representative (North-East Counties) would consider sound agency. 410/989, London Office of this Paper.

SELLING Organisation with a complete coverage, is prepared to accept one further line, and/or is prepared to purchase a known proprietary article. Write 409/975, London Office of this Paper.

SITUATIONS WANTED

2/6 for 18 words or less, 1d. for every additional word

None of the advertisements below relates to a woman between 18 and 30 years inclusive unless such woman has living with her a child of her own under the age of 14; or is registered under the Blind Persons Acts; or has a Ministry of Labour permit to allow her to obtain employment by individual effort.

RETAIL (HOME)

BIRMINGHAM area preferred. Engagement desired. Disengaged when suited; experienced; over military age; first-class references. Hanley, 64 Church Road, Erdington, nr. Birmingham.

EFFICIENT Lady Dispenser (Hall) desires change; experienced General Practice and Hospital. Particulars and salary please to 410/107, London Office of this Paper.

WHOLESALE

B.D.A. M.P.S., F.N.A.O. (31), seeks responsible position. Used to handling staff (9), buying, etc. West End and Provincial experience. Excellent references. Please indicate salary (and commission if applicable) and working hours. Available immediately. Buchanan, "Tettenhall," Manor Way, Crewe.

CHEMIST Sundries. Wholesale factor, registered, with first-class connexion, stores and co-operative societies, is willing to look after the marketing interest of well-established proprietary house covering North, East and West Riding Yorkshire. 409/969, London Office of this Paper.

FIRST-CLASS Representative (discharged Services) good connection Chemists, London, Eastern Counties, also Midlands, Southern Counties; own car; desires Representation with house of repute. 410/111, London Office of this Paper.

GENTLEMAN, 47, unregistered, 30 years' experience Wholesale and Retail, desires change, preferably work of National importance, London area. 410/116, London Office of this Paper.

QUALIFIED Chemist (Ph.C., A.I.C.) (30), with Analytical, Control, and Works experience, desires position with good prospects as Chemist, Works Manager, or Assistant. 410/109, London Office of this Paper.

REPRESENTATIVE, 45, exempt all military service, with excellent connexion (16 years) Chemists and Stores London, Surrey, Kent, Drugs and Toiletries, seeks position. Highest references; car driver. 407/911, London Office of this Paper.

SALES Advertising, and propaganda Executive (39), desires change. Life experience high-grade pharmaceutical and medical products, staff control and organisation. Exempt. English or American house preferred but would consider partnership in small progressive wholesale or manufacturing business in need of development in Home Counties or Yorkshire. Raw materials and ideas for new important products if required. Please write fully in strictest confidence to 410/990, London Office of this Paper.

MISCELLANEOUS SALES

12/6 for 60 words or less, 1/- each additional 10 words

BOTTLES and JARS, Job Lots. 22 gross "Hexon" Jars, 24s. grs.; 10 gross 4 oz. J Jars, 23s. grs.; 22 gross 4 oz. Jars, 21s. grs.; 20 7 oz. Sauce Bts., 23s. grs.; 24 gross 2 pt. "Col 9s. doz.; 10 gross 24 oz. Emulsions, 43s. 10 gross 28 oz. "Federal," 36s. grs.; 5 gross Fluted Medicals, 40s. grs. Plain Glass Bottles Composition Corks and Jars with Plain Lennard, Lee-Narvill & Co., 140 Coltman S Hull.

FINEST Quality Stearic Acid. Triple pressed 5s. 6d. per lb. Minimum 7 lb. lots. Sl 9 Leeds Road, Harrogate.

FOR Sale at clearance prices: 28 lb. Stearic super cosmetic quality, 5/- lb.; 3 gross 1 Bakelite Perfume Containers at 48s. per various colours; 3 gross smart, black bakelit tainers, white screw base (suitable 9 m.m. a lipstick), 90s. per gross; 2 gross fancy P Boxes, square, 2 oz., special offer, 30s. gross. cash with order to H. Poller, Chemist, 164 Wil Road, Manchester, 20. Optical Frames wa Will pay cash or exchange above lines.

LIPSTICKS and Face Powders. M. Walker, wholesale warehousemen, are again ab supply a limited quantity of lipsticks and face ders. Inquiries invited. 190 High Road, Wen

SOFT Soap, amber, odourless, made with vegetable oils, 50s. cwt., 26s. ½ cwt. Fre drums, cash with order. Immediate delivery samples sent out. Shortage labour and pa materials. Wanted: Henna Powder. State and quantity. Ambrose, 5 Lee Side Cre Finchley Road, N.W.11.

WHITE Distilled Stearine. Lennard, Lee-N & Co., 140 Coltman Street, Hull.

BUSINESS OPPORTUNITI

7/6 for 40 words or less, 2d. for every additional w

ESTABLISHED Company, experienced in M ing, distribution and selling, and adequ represented throughout England, Scotland, and Northern Ireland, wishes to act as selling a for extra line on commission. The company premises in Manchester and is equipped to h business in volume. As the company is deali its own account, it can offer live representatio large number of accounts, particular care in wat the clients' interests, personal contact by the cipals with every buyer of note and expert super of territory. Agency for whole or part of the entertained. First-class references available. 41 London Office of this Paper.

YOUNG Organisation, well established throu the country, and represented in Northern I with chemists, private and manufacturing, co manufacturers and allied traders and all large and co-operative societies, are desirous of exte their activities by the adoption of a new line advertisers are equipped to handle a large v of business, and will supply substantial refer All inquiries and letters in strict confidence. 41 London Office of this Paper.

BUSINESSES WANTED

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